



A reconstruction of Edward Sang's table of mean anomalies, volume A (K46,1880)

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Introduction

Edward Sang (1805–1890) was probably the greatest calculator of logarithms of the 19th century [4, 12, 13, 14, 26, 31]. Sang spent 40 years computing tables of logarithms and trigonometric functions, with the assistance from his daughters Flora (1838-1925) and Jane (1834-1878).

Sang’s purpose was in particular to provide fundamental tables, including for the decimal division of the quadrant. In 1890 [4, p. 189], he wrote that

In addition to the results being accurate to a degree far beyond what can ever be needed in practical matters, [the collection of computations] contains what no work of the kind has contained before, a complete and clear record of all the steps by which those results were reached. Thus we are enabled at once to verify, or if necessary, to correct the record, so making it a standard for all time.

For these reasons it is proposed that the entire collection be acquired by, and preserved in, some official library, so as to be accessible to all interested in such matters; so that future computers may be enabled to extend the work without the need of recomputing what has been already done; and also so that those extracts which are judged to be expedient may be published.

But Sang also worked on other tables,¹ and at the end of the 1870s, he turned his attention to Kepler’s equation. This equation relates two parameters of an elliptic motion, namely the eccentric and the mean anomalies. Sang found that the mean anomaly could be expressed as the sum of the areas of two circular segments [64], and that prompted him to construct a table of circular segments [49].

Solving Kepler’s equation required having a first estimate of the eccentric anomaly. In 1890 [4], Sang wrote that

In order to be able promptly to make this first estimate sufficiently near in every possible case, a table of mean anomalies from degree to degree of the angular position, and also from degree to degree of the angle of excentricity of the orbit, has been computed according to the decimal system.

Sang’s table of mean anomalies (K46)² reconstructed here³ gives the mean anomaly as a function of the eccentric anomaly. This table was briefly described in [70, 4].

In order to understand what this function actually tabulates, we need to recall the various parameters describing the elliptic motion. In figure 1, P is a planet orbiting on an elliptic path around the Sun S . From P we obtain point Q which is on a circle whose radius is the semi-major axis of the ellipse. A is the perihelion. The angle p is the eccentric anomaly, which Sang prefers to call “angle of position.”

¹A summary of Sang’s main tables and the ones I have reconstructed is given in a separate guide [35].

²National Library of Scotland, Edinburgh, Acc.10780/56.

³The present introduction is almost identical to that written for the twin volume K47[50].

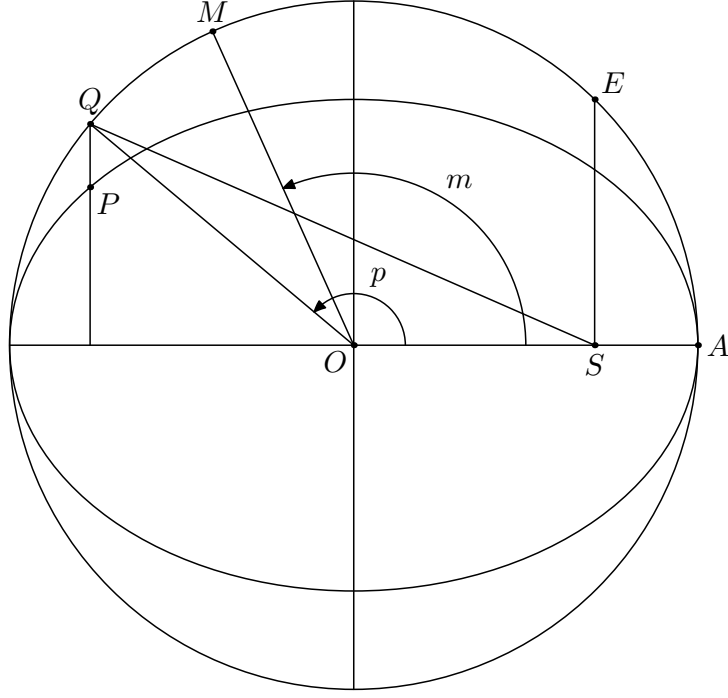


Figure 1: Eccentric and mean anomalies.

According to Kepler's second law, the segment SP sweeps equal areas in equal times. Consequently, this is also true of the segment SQ , as the circle $AEMQ$ is a mere projection of the elliptic path. All areas are multiplied by a constant factor.

Q has an uneven motion around O , and M represents the mean motion of Q , when both points start together at the perihelion A . The angle m is the mean anomaly.

The eccentricity ε of the ellipse is OS/OA and according to Kepler's equation, we have

$$m = p - \varepsilon \sin p$$

This assumes that m and p are expressed in radians.

Now, Sang writes $e = \widehat{AE}$, and we have naturally $\varepsilon = \cos e$. Therefore, Kepler's equation reads

$$m = p - \cos e \cdot \sin p$$

and

$$\frac{200}{\pi}m = \frac{200}{\pi}p - \frac{200}{\pi}\cos e \cdot \sin\left(\frac{200}{\pi}p\right)$$

If now $m' = \frac{200}{\pi}m$ and $p' = \frac{200}{\pi}p$ are the mean and eccentric anomalies expressed in centesimal degrees, we obtain

$$m' = p' - \frac{200}{\pi}\cos e \cdot \sin(p')$$

and this is the equation which was tabulated by Sang.

More precisely, Sang gives the values of

$$\theta - \frac{200}{\pi}\cos e \cdot \sin \theta \tag{1}$$

for $e = 0^\circ$ to $e = 99^\circ$ and for $\theta = 0^\circ$ to $\theta = 200^\circ$. Each degree of eccentricity spans four pages. The values of the mean anomalies are given to the eighth decimal place of the degree.⁴

Formula (1) might be considered as an extension of the formula for circular segments, which happens to be the case $e = 0$. Consequently, the table of circular segments is a subtable of the present table.

In a second volume (K47) [50], Sang gives the same values, but restricted to four decimal places, with differences and variations.

The tables K46 and K47 could be used to provide first approximations of the values of the eccentric anomaly, as explained in the description of volume K45 [49].

Sang's article on elliptic motions [65] also contains on six pages tables of anomalies for $e = 10^\circ$, 50° and 90° . These tables give the mean and true anomalies to four decimal places and for the angles of position (eccentric anomalies) between 0 and 200° .

Sang also had the project of computing more extensive tables of true anomalies and radii, but after the completion of the tables of mean anomalies, he preferred to compute logarithmic sines and tangents [47]. He sketched the computation of true anomalies and radii shortly before his death for others to continue.⁵

There are a number of other tables of anomalies, but most of these tables are meant to compute the true anomaly, or give the value of the eccentric anomaly as a function of the mean anomaly and the eccentricity. The latter tables are the opposite of Sang's table, but at the same time they seem to be what Sang sought to provide initially. An example of such a table is found in Åstrand's *Hülfsstafeln* [7] published in 1890, the year of Sang's death.

⁴The reconstruction provided here is based on written notes, and may slightly differ from the original table.

⁵See Sang's 1889 notice [69], also transcribed in my analysis of the computation of sines [36].

References

The following list covers the most important references⁶ related to Sang’s table. Not all items of this list are mentioned in the text, and the sources which have not been seen are marked so. I have added notes about the contents of the articles in certain cases.

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⁶**Note on the titles of the works:** Original titles come with many idiosyncrasies and features (line splitting, size, fonts, etc.) which can often not be reproduced in a list of references. It has therefore seemed pointless to capitalize works according to conventions which not only have no relation with the original work, but also do not restore the title entirely. In the following list of references, most title words (except in German) will therefore be left uncapitalized. The names of the authors have also been homogenized and initials expanded, as much as possible.

The reader should keep in mind that this list is not meant as a facsimile of the original works. The original style information could no doubt have been added as a note, but I have not done it here.

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$$e = 0^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	0.6376	1604
1	0.0000	4112	26	0.7167	8003
2	0.0003	2897	27	0.8021	8227
3	0.0011	1021	28	0.8940	4843
4	0.0026	3138	29	0.9926	0258
5	0.0051	3883	30	1.0980	6714
6	0.0088	7870	31	1.2106	6282
7	0.0140	9679	32	1.3306	0857
8	0.0210	3854	33	1.4581	2153
9	0.0299	4898	34	1.5934	1698
10	0.0410	7265	35	1.7367	0827
11	0.0546	5353	36	1.8882	0678
12	0.0709	3502	37	2.0481	2186
13	0.0901	5982	38	2.2166	6079
14	0.1125	6993	39	2.3940	2873
15	0.1384	0656	40	2.5804	2865
16	0.1679	1006	41	2.7760	6128
17	0.2013	1990	42	2.9811	2510
18	0.2388	7456	43	3.1958	1624
19	0.2808	1151	44	3.4203	2847
20	0.3273	6714	45	3.6548	5313
21	0.3787	7670	46	3.8995	7908
22	0.4352	7423	47	4.1546	9268
23	0.4970	9254	48	4.4203	7772
24	0.5644	6311	49	4.6968	1538
25	0.6376	1604	50	4.9841	8419

$$e = 0^c$$

θ	mean anomaly		θ	mean anomaly	
50	4.9841	8419	75	16.1840	0223
51	5.2826	5998	76	16.8085	9052
52	5.5924	1583	77	17.4477	8340
53	5.9136	2207	78	18.1016	6990
54	6.2464	4616	79	18.7703	3542
55	6.5910	5273	80	19.4538	6171
56	6.9476	0348	81	20.1523	2685
57	7.3162	5717	82	20.8658	0524
58	7.6971	6959	83	21.5943	6758
59	8.0904	9347	84	22.3380	8084
60	8.4963	7852	85	23.0970	0826
61	8.9149	7131	86	23.8712	0932
62	9.3464	1531	87	24.6607	3972
63	9.7908	5079	88	25.4656	5140
64	10.2484	1483	89	26.2859	9250
65	10.7192	4127	90	27.1218	0734
66	11.2034	6067	91	27.9731	3644
67	11.7012	0030	92	28.8400	1647
68	12.2125	8408	93	29.7224	8028
69	12.7377	3257	94	30.6205	5687
70	13.2767	6294	95	31.5342	7139
71	13.8297	8891	96	32.4636	4513
72	14.3969	2078	97	33.4086	9552
73	14.9782	6535	98	34.3694	3611
74	15.5739	2591	99	35.3458	7658
75	16.1840	0223	100	36.3380	2276

$$e = 0^c$$

θ	mean anomaly		θ	mean anomaly	
100	36.3380	2276	125	66.1840	0223
101	37.3458	7658	126	67.5739	2591
102	38.3694	3611	127	68.9782	6535
103	39.4086	9552	128	70.3969	2078
104	40.4636	4513	129	71.8297	8891
105	41.5342	7139	130	73.2767	6294
106	42.6205	5687	131	74.7377	3257
107	43.7224	8028	132	76.2125	8408
108	44.8400	1647	133	77.7012	0030
109	45.9731	3644	134	79.2034	6067
110	47.1218	0734	135	80.7192	4127
111	48.2859	9250	136	82.2484	1483
112	49.4656	5140	137	83.7908	5079
113	50.6607	3972	138	85.3464	1531
114	51.8712	0932	139	86.9149	7131
115	53.0970	0826	140	88.4963	7852
116	54.3380	8084	141	90.0904	9347
117	55.5943	6758	142	91.6971	6959
118	56.8658	0524	143	93.3162	5717
119	58.1523	2685	144	94.9476	0348
120	59.4538	6171	145	96.5910	5273
121	60.7703	3542	146	98.2464	4616
122	62.1016	6990	147	99.9136	2207
123	63.4477	8340	148	101.5924	1583
124	64.8085	9052	149	103.2826	5998
125	66.1840	0223	150	104.9841	8419

$$e = 0^c$$

θ	mean anomaly		θ	mean anomaly	
150	104.9841	8419	175	150.6376	1604
151	106.6968	1538	176	152.5644	6311
152	108.4203	7772	177	154.4970	9254
153	110.1546	9268	178	156.4352	7423
154	111.8995	7908	179	158.3787	7670
155	113.6548	5313	180	160.3273	6714
156	115.4203	2847	181	162.2808	1151
157	117.1958	1624	182	164.2388	7456
158	118.9811	2510	183	166.2013	1990
159	120.7760	6128	184	168.1679	1006
160	122.5804	2865	185	170.1384	0656
161	124.3940	2873	186	172.1125	6993
162	126.2166	6079	187	174.0901	5982
163	128.0481	2186	188	176.0709	3502
164	129.8882	0678	189	178.0546	5353
165	131.7367	0827	190	180.0410	7265
166	133.5934	1698	191	182.0299	4898
167	135.4581	2153	192	184.0210	3854
168	137.3306	0857	193	186.0140	9679
169	139.2106	6282	194	188.0088	7870
170	141.0980	6714	195	190.0051	3883
171	142.9926	0258	196	192.0026	3138
172	144.8940	4843	197	194.0011	1021
173	146.8021	8227	198	196.0003	2897
174	148.7167	8003	199	198.0000	4112
175	150.6376	1604	200	200.0000	0000

$$e = 1^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	0.6406	2157
1	0.0001	6449	26	0.7198	9915
2	0.0005	7567	27	0.8054	1423
3	0.0014	8017	28	0.8973	9243
4	0.0031	2452	29	0.9960	5779
5	0.0057	5504	30	1.1016	3270
6	0.0096	1781	31	1.2143	3785
7	0.0149	5862	32	1.3343	9217
8	0.0220	2288	33	1.4620	1277
9	0.0310	5559	34	1.5974	1490
10	0.0423	0126	35	1.7408	1188
11	0.0560	0383	36	1.8924	1506
12	0.0724	0668	37	2.0524	3378
13	0.0917	5247	38	2.2210	7530
14	0.1142	8319	39	2.3985	4472
15	0.1402	4000	40	2.5850	4501
16	0.1698	6323	41	2.7807	7688
17	0.2033	9231	42	2.9859	3876
18	0.2410	6570	43	3.2007	2679
19	0.2831	2085	44	3.4253	3469
20	0.3297	9410	45	3.6599	5378
21	0.3813	2069	46	3.9047	7291
22	0.4379	3462	47	4.1599	7840
23	0.4998	6867	48	4.4257	5403
24	0.5673	5429	49	4.7022	8096
25	0.6406	2157	50	4.9897	3768

$$e = 1^c$$

θ	mean anomaly		θ	mean anomaly	
50	4.9897	3768	75	16.1912	5822
51	5.2883	0001	76	16.8158	9282
52	5.5981	4102	77	17.4551	3021
53	5.9194	3100	78	18.1090	5941
54	6.2523	3740	79	18.7777	6581
55	6.5970	2482	80	19.4613	3114
56	6.9536	5495	81	20.1598	3348
57	7.3223	8653	82	20.8733	4722
58	7.7033	7532	83	21.6019	4304
59	8.0967	7405	84	22.3456	8792
60	8.5027	3239	85	23.1046	4508
61	8.9213	9691	86	23.8788	7399
62	9.3529	1105	87	24.6684	3036
63	9.7974	1507	88	25.4733	6611
64	10.2550	4603	89	26.2937	2937
65	10.7259	3775	90	27.1295	6447
66	11.2102	2078	91	27.9809	1191
67	11.7080	2238	92	28.8478	0836
68	12.2194	6644	93	29.7302	8667
69	12.7446	7351	94	30.6283	7584
70	13.2837	6074	95	31.5421	0100
71	13.8368	4186	96	32.4714	8346
72	14.4040	2713	97	33.4165	4062
73	14.9854	2335	98	34.3772	8605
74	15.5811	3379	99	35.3537	2943
75	16.1912	5822	100	36.3458	7658

$$e = 1^c$$

θ	mean anomaly		θ	mean anomaly	
100	36.3458	7658	125	66.1912	5822
101	37.3537	2943	126	67.5811	3379
102	38.3772	8605	127	68.9854	2335
103	39.4165	4062	128	70.4040	2713
104	40.4714	8346	129	71.8368	4186
105	41.5421	0100	130	73.2837	6074
106	42.6283	7584	131	74.7446	7351
107	43.7302	8667	132	76.2194	6644
108	44.8478	0836	133	77.7080	2238
109	45.9809	1191	134	79.2102	2078
110	47.1295	6447	135	80.7259	3775
111	48.2937	2937	136	82.2550	4603
112	49.4733	6611	137	83.7974	1507
113	50.6684	3036	138	85.3529	1105
114	51.8788	7399	139	86.9213	9691
115	53.1046	4508	140	88.5027	3239
116	54.3456	8792	141	90.0967	7405
117	55.6019	4304	142	91.7033	7532
118	56.8733	4722	143	93.3223	8653
119	58.1598	3348	144	94.9536	5495
120	59.4613	3114	145	96.5970	2482
121	60.7777	6581	146	98.2523	3740
122	62.1090	5941	147	99.9194	3100
123	63.4551	3021	148	101.5981	4102
124	64.8158	9282	149	103.2883	0001
125	66.1912	5822	150	104.9897	3768

$$e = 1^c$$

θ	mean anomaly		θ	mean anomaly	
150	104.9897	3768	175	150.6406	2157
151	106.7022	8096	176	152.5673	5429
152	108.4257	5403	177	154.4998	6867
153	110.1599	7840	178	156.4379	3462
154	111.9047	7291	179	158.3813	2069
155	113.6599	5378	180	160.3297	9410
156	115.4253	3469	181	162.2831	2085
157	117.2007	2679	182	164.2410	6570
158	118.9859	3876	183	166.2033	9231
159	120.7807	7688	184	168.1698	6323
160	122.5850	4501	185	170.1402	4000
161	124.3985	4472	186	172.1142	8319
162	126.2210	7530	187	174.0917	5247
163	128.0524	3378	188	176.0724	0668
164	129.8924	1506	189	178.0560	0383
165	131.7408	1188	190	180.0423	0126
166	133.5974	1490	191	182.0310	5559
167	135.4620	1277	192	184.0220	2288
168	137.3343	9217	193	186.0149	5862
169	139.2143	3785	194	188.0096	1781
170	141.1016	3270	195	190.0057	5504
171	142.9960	5779	196	192.0031	2452
172	144.8973	9243	197	194.0014	8017
173	146.8054	1423	198	196.0005	7567
174	148.7198	9915	199	198.0001	6449
175	150.6406	2157	200	200.0000	0000

$$e = 2^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	0.6496	3741
1	0.0005	3454	26	0.7292	5577
2	0.0013	1569	27	0.8151	0931
3	0.0025	8998	28	0.9074	2358
4	0.0046	0384	29	1.0064	2254
5	0.0076	0350	30	1.1123	2850
6	0.0118	3496	31	1.2253	6206
7	0.0175	4391	32	1.3457	4206
8	0.0249	7567	33	1.4736	8554
9	0.0343	7516	34	1.6094	0767
10	0.0459	8678	35	1.7531	2169
11	0.0600	5440	36	1.9050	3889
12	0.0768	2129	37	2.0653	6850
13	0.0965	3005	38	2.2343	1771
14	0.1194	2254	39	2.4120	9157
15	0.1457	3986	40	2.5988	9295
16	0.1757	2224	41	2.7949	2249
17	0.2096	0903	42	3.0003	7856
18	0.2476	3860	43	3.2154	5721
19	0.2900	4830	44	3.4403	5209
20	0.3370	7440	45	3.6752	5446
21	0.3889	5202	46	3.9203	5310
22	0.4459	1512	47	4.1758	3426
23	0.5081	9637	48	4.4418	8164
24	0.5760	2713	49	4.7186	7633
25	0.6496	3741	50	5.0063	9678

$$e = 2^c$$

θ	mean anomaly		θ	mean anomaly	
50	5.0063	9678	75	16.2130	2438
51	5.3052	1873	76	16.8377	9791
52	5.6153	1518	77	17.4771	6883
53	5.9368	5635	78	18.1312	2611
54	6.2700	0966	79	18.8000	5513
55	6.6149	3962	80	19.4837	3757
56	6.9718	0787	81	20.1823	5150
57	7.3407	7310	82	20.8959	7128
58	7.7219	9100	83	21.6246	6756
59	8.1156	1424	84	22.3685	0728
60	8.5217	9245	85	23.1275	5365
61	8.9406	7213	86	23.9018	6612
62	9.3723	9667	87	24.6915	0038
63	9.8171	0629	88	25.4965	0833
64	10.2749	3799	89	26.3169	3808
65	10.7460	2554	90	27.1528	3394
66	11.2304	9945	91	28.0042	3639
67	11.7284	8692	92	28.8711	8211
68	12.2401	1180	93	29.7537	0392
69	12.7654	9461	94	30.6518	3080
70	13.3047	5243	95	31.5655	8790
71	13.8579	9896	96	32.4949	9649
72	14.4253	4443	97	33.4400	7399
73	15.0068	9557	98	34.4008	3395
74	15.6027	5565	99	35.3772	8605
75	16.2130	2438	100	36.3694	3611

$$e = 2^c$$

θ	mean anomaly		θ	mean anomaly	
100	36.3694	3611	125	66.2130	2438
101	37.3772	8605	126	67.6027	5565
102	38.4008	3395	127	69.0068	9557
103	39.4400	7399	128	70.4253	4443
104	40.4949	9649	129	71.8579	9896
105	41.5655	8790	130	73.3047	5243
106	42.6518	3080	131	74.7654	9461
107	43.7537	0392	132	76.2401	1180
108	44.8711	8211	133	77.7284	8692
109	46.0042	3639	134	79.2304	9945
110	47.1528	3394	135	80.7460	2554
111	48.3169	3808	136	82.2749	3799
112	49.4965	0833	137	83.8171	0629
113	50.6915	0038	138	85.3723	9667
114	51.9018	6612	139	86.9406	7213
115	53.1275	5365	140	88.5217	9245
116	54.3685	0728	141	90.1156	1424
117	55.6246	6756	142	91.7219	9100
118	56.8959	7128	143	93.3407	7310
119	58.1823	5150	144	94.9718	0787
120	59.4837	3757	145	96.6149	3962
121	60.8000	5513	146	98.2700	0966
122	62.1312	2611	147	99.9368	5635
123	63.4771	6883	148	101.6153	1518
124	64.8377	9791	149	103.3052	1873
125	66.2130	2438	150	105.0063	9678

$$e = 2^c$$

θ	mean anomaly		θ	mean anomaly	
150	105.0063	9678	175	150.6496	3741
151	106.7186	7633	176	152.5760	2713
152	108.4418	8164	177	154.5081	9637
153	110.1758	3426	178	156.4459	1512
154	111.9203	5310	179	158.3889	5202
155	113.6752	5446	180	160.3370	7440
156	115.4403	5209	181	162.2900	4830
157	117.2154	5721	182	164.2476	3860
158	119.0003	7856	183	166.2096	0903
159	120.7949	2249	184	168.1757	2224
160	122.5988	9295	185	170.1457	3986
161	124.4120	9157	186	172.1194	2254
162	126.2343	1771	187	174.0965	3005
163	128.0653	6850	188	176.0768	2129
164	129.9050	3889	189	178.0600	5440
165	131.7531	2169	190	180.0459	8678
166	133.6094	0767	191	182.0343	7516
167	135.4736	8554	192	184.0249	7567
168	137.3457	4206	193	186.0175	4391
169	139.2253	6206	194	188.0118	3496
170	141.1123	2850	195	190.0076	0350
171	143.0064	2254	196	192.0046	0384
172	144.9074	2358	197	194.0025	8998
173	146.8151	0931	198	196.0013	1569
174	148.7292	5577	199	198.0005	3454
175	150.6496	3741	200	200.0000	0000

$$e = 3^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	0.6646	6133
1	0.0011	5120	26	0.7448	4756
2	0.0025	4886	27	0.8312	6512
3	0.0044	3935	28	0.9241	3943
4	0.0070	6895	29	1.0236	9430
5	0.0106	8375	30	1.1301	5190
6	0.0155	2959	31	1.2437	3271
7	0.0218	5201	32	1.3646	5542
8	0.0298	9618	33	1.4931	3696
9	0.0399	0686	34	1.6293	9234
10	0.0521	2830	35	1.7736	3468
11	0.0668	0423	36	1.9260	7513
12	0.0841	7777	37	2.0869	2281
13	0.1044	9136	38	2.2563	8477
14	0.1279	8672	39	2.4346	6594
15	0.1549	0479	40	2.6219	6905
16	0.1854	8566	41	2.8184	9463
17	0.2199	6854	42	3.0244	4093
18	0.2585	9163	43	3.2400	0387
19	0.3015	9215	44	3.4653	7698
20	0.3492	0622	45	3.7007	5141
21	0.4016	6883	46	3.9463	1581
22	0.4592	1377	47	4.2022	5633
23	0.5220	7358	48	4.4687	5655
24	0.5904	7948	49	4.7459	9746
25	0.6646	6133	50	5.0341	5738

$$e = 3^c$$

θ	mean anomaly		θ	mean anomaly	
50	5.0341	5738	75	16.2492	9534
51	5.3334	1194	76	16.8743	0039
52	5.6439	3406	77	17.5138	9381
53	5.9658	9383	78	18.1681	6454
54	6.2994	5858	79	18.8371	9788
55	6.6447	9271	80	19.5210	7549
56	7.0020	5777	81	20.2198	7537
57	7.3714	1234	82	20.9336	7184
58	7.7530	1202	83	21.6625	3551
59	8.1470	0939	84	22.4065	3328
60	8.5535	5398	85	23.1657	2832
61	8.9727	9221	86	23.9401	8004
62	9.4048	6737	87	24.7299	4409
63	9.8499	1960	88	25.5350	7235
64	10.3080	8581	89	26.3556	1289
65	10.7794	9970	90	27.1916	1000
66	11.2642	9168	91	28.0431	0414
67	11.7625	8888	92	28.9101	3195
68	12.2745	1509	93	29.7927	2624
69	12.8001	9073	94	30.6909	1598
70	13.3397	3283	95	31.6047	2629
71	13.8932	5500	96	32.5341	7843
72	14.4608	6740	97	33.4792	8982
73	15.0426	7673	98	34.4400	7399
74	15.6387	8616	99	35.4165	4062
75	16.2492	9534	100	36.4086	9552

$$e = 3^c$$

θ	mean anomaly		θ	mean anomaly	
100	36.4086	9552	125	66.2492	9534
101	37.4165	4062	126	67.6387	8616
102	38.4400	7399	127	69.0426	7673
103	39.4792	8982	128	70.4608	6740
104	40.5341	7843	129	71.8932	5500
105	41.6047	2629	130	73.3397	3283
106	42.6909	1598	131	74.8001	9073
107	43.7927	2624	132	76.2745	1509
108	44.9101	3195	133	77.7625	8888
109	46.0431	0414	134	79.2642	9168
110	47.1916	1000	135	80.7794	9970
111	48.3556	1289	136	82.3080	8581
112	49.5350	7235	137	83.8499	1960
113	50.7299	4409	138	85.4048	6737
114	51.9401	8004	139	86.9727	9221
115	53.1657	2832	140	88.5535	5398
116	54.4065	3328	141	90.1470	0939
117	55.6625	3551	142	91.7530	1202
118	56.9336	7184	143	93.3714	1234
119	58.2198	7537	144	95.0020	5777
120	59.5210	7549	145	96.6447	9271
121	60.8371	9788	146	98.2994	5858
122	62.1681	6454	147	99.9658	9383
123	63.5138	9381	148	101.6439	3406
124	64.8743	0039	149	103.3334	1194
125	66.2492	9534	150	105.0341	5738

$$e = 3^c$$

θ	mean anomaly		θ	mean anomaly	
150	105.0341	5738	175	150.6646	6133
151	106.7459	9746	176	152.5904	7948
152	108.4687	5655	177	154.5220	7358
153	110.2022	5633	178	156.4592	1377
154	111.9463	1581	179	158.4016	6883
155	113.7007	5141	180	160.3492	0622
156	115.4653	7698	181	162.3015	9215
157	117.2400	0387	182	164.2585	9163
158	119.0244	4093	183	166.2199	6854
159	120.8184	9463	184	168.1854	8566
160	122.6219	6905	185	170.1549	0479
161	124.4346	6594	186	172.1279	8672
162	126.2563	8477	187	174.1044	9136
163	128.0869	2281	188	176.0841	7777
164	129.9260	7513	189	178.0668	0423
165	131.7736	3468	190	180.0521	2830
166	133.6293	9234	191	182.0399	0686
167	135.4931	3696	192	184.0298	9618
168	137.3646	5542	193	186.0218	5201
169	139.2437	3271	194	188.0155	2959
170	141.1301	5190	195	190.0106	8375
171	143.0236	9430	196	192.0070	6895
172	144.9241	3943	197	194.0044	3935
173	146.8312	6512	198	196.0025	4886
174	148.7448	4756	199	198.0011	5120
175	150.6646	6133	200	200.0000	0000

$$e = 4^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	0.6856	8964
1	0.0020	1431	26	0.7666	7069
2	0.0042	7486	27	0.8538	7768
3	0.0070	2783	28	0.9475	3584
4	0.0105	1927	29	1.0478	6878
5	0.0149	9505	30	1.1550	9850
6	0.0207	0081	31	1.2694	4527
7	0.0278	8187	32	1.3911	2760
8	0.0367	8320	33	1.5203	6222
9	0.0476	4933	34	1.6573	6397
10	0.0607	2432	35	1.8023	4577
11	0.0762	5167	36	1.9555	1861
12	0.0944	7430	37	2.1170	9141
13	0.1156	3444	38	2.2872	7104
14	0.1399	7360	39	2.4662	6226
15	0.1677	3252	40	2.6542	6762
16	0.1991	5108	41	2.8514	8749
17	0.2344	6826	42	3.0581	1994
18	0.2739	2208	43	3.2743	6071
19	0.3177	4955	44	3.5004	0319
20	0.3661	8659	45	3.7364	3833
21	0.4194	6797	46	3.9826	5465
22	0.4778	2729	47	4.2392	3811
23	0.5414	9689	48	4.5063	7215
24	0.6107	0779	49	4.7842	3760
25	0.6856	8964	50	5.0730	1262

$$e = 4^c$$

θ	mean anomaly		θ	mean anomaly	
50	5.0730	1262	75	16.3000	6217
51	5.3728	7271	76	16.9253	9125
52	5.6839	9060	77	17.5652	9610
53	6.0065	3628	78	18.2198	6558
54	6.3406	7689	79	18.8891	8491
55	6.6865	7673	80	19.5733	3568
56	7.0443	9718	81	20.2723	9583
57	7.4142	9669	82	20.9864	3961
58	7.7964	3073	83	21.7155	3757
59	8.1909	5176	84	22.4597	5656
60	8.5980	0915	85	23.2191	5968
61	9.0177	4922	86	23.9938	0629
62	9.4503	1513	87	24.7837	5201
63	9.8958	4689	88	25.5890	4866
64	10.3544	8130	89	26.4097	4427
65	10.8263	5194	90	27.2458	8309
66	11.3115	8912	91	28.0975	0556
67	11.8103	1985	92	28.9646	4827
68	12.3226	6780	93	29.8473	4401
69	12.8487	5331	94	30.7456	2173
70	13.3886	9329	95	31.6595	0651
71	13.9426	0127	96	32.5890	1962
72	14.5105	8730	97	33.5341	7843
73	15.0927	5799	98	34.4949	9649
74	15.6892	1642	99	35.4714	8346
75	16.3000	6217	100	36.4636	4513

$$e = 4^c$$

θ	mean anomaly		θ	mean anomaly	
100	36.4636	4513	125	66.3000	6217
101	37.4714	8346	126	67.6892	1642
102	38.4949	9649	127	69.0927	5799
103	39.5341	7843	128	70.5105	8730
104	40.5890	1962	129	71.9426	0127
105	41.6595	0651	130	73.3886	9329
106	42.7456	2173	131	74.8487	5331
107	43.8473	4401	132	76.3226	6780
108	44.9646	4827	133	77.8103	1985
109	46.0975	0556	134	79.3115	8912
110	47.2458	8309	135	80.8263	5194
111	48.4097	4427	136	82.3544	8130
112	49.5890	4866	137	83.8958	4689
113	50.7837	5201	138	85.4503	1513
114	51.9938	0629	139	87.0177	4922
115	53.2191	5968	140	88.5980	0915
116	54.4597	5656	141	90.1909	5176
117	55.7155	3757	142	91.7964	3073
118	56.9864	3961	143	93.4142	9669
119	58.2723	9583	144	95.0443	9718
120	59.5733	3568	145	96.6865	7673
121	60.8891	8491	146	98.3406	7689
122	62.2198	6558	147	100.0065	3628
123	63.5652	9610	148	101.6839	9060
124	64.9253	9125	149	103.3728	7271
125	66.3000	6217	150	105.0730	1262

$$e = 4^c$$

θ	mean anomaly		θ	mean anomaly	
150	105.0730	1262	175	150.6856	8964
151	106.7842	3760	176	152.6107	0779
152	108.5063	7215	177	154.5414	9689
153	110.2392	3811	178	156.4778	2729
154	111.9826	5465	179	158.4194	6797
155	113.7364	3833	180	160.3661	8659
156	115.5004	0319	181	162.3177	4955
157	117.2743	6071	182	164.2739	2208
158	119.0581	1994	183	166.2344	6826
159	120.8514	8749	184	168.1991	5108
160	122.6542	6762	185	170.1677	3252
161	124.4662	6226	186	172.1399	7360
162	126.2872	7104	187	174.1156	3444
163	128.1170	9141	188	176.0944	7430
164	129.9555	1861	189	178.0762	5167
165	131.8023	4577	190	180.0607	2432
166	133.6573	6397	191	182.0476	4933
167	135.5203	6222	192	184.0367	8320
168	137.3911	2760	193	186.0278	8187
169	139.2694	4527	194	188.0207	0081
170	141.1550	9850	195	190.0149	9505
171	143.0478	6878	196	192.0105	1927
172	144.9475	3584	197	194.0070	2783
173	146.8538	7768	198	196.0042	7486
174	148.7666	7069	199	198.0020	1431
175	150.6856	8964	200	200.0000	0000

$$e = 5^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	0.7127	1714
1	0.0031	2366	26	0.7947	1976
2	0.0064	9329	27	0.8829	4140
3	0.0103	5478	28	0.9776	0704
4	0.0149	5393	29	1.0789	4004
5	0.0205	3632	30	1.1871	6215
6	0.0273	4733	31	1.3024	9340
7	0.0356	3199	32	1.4251	5206
8	0.0456	3501	33	1.5553	5461
9	0.0576	0065	34	1.6933	1566
10	0.0717	7270	35	1.8392	4789
11	0.0883	9438	36	1.9933	6205
12	0.1077	0834	37	2.1558	6683
13	0.1299	5655	38	2.3269	6889
14	0.1553	8024	39	2.5068	7273
15	0.1842	1989	40	2.6957	8070
16	0.2167	1511	41	2.8938	9293
17	0.2531	0462	42	3.1014	0727
18	0.2936	2618	43	3.3185	1926
19	0.3385	1652	44	3.5454	2206
20	0.3880	1130	45	3.7823	0642
21	0.4423	4505	46	4.0293	6063
22	0.5017	5108	47	4.2867	7047
23	0.5664	6150	48	4.5547	1916
24	0.6367	0705	49	4.8333	8732
25	0.7127	1714	50	5.1229	5293

$$e = 5^c$$

θ	mean anomaly		θ	mean anomaly	
50	5.1229	5293	75	16.3653	1232
51	5.4235	9128	76	16.9910	5788
52	5.7354	7493	77	17.6313	6301
53	6.0587	7366	78	18.2863	1647
54	6.3936	5443	79	18.9560	0338
55	6.7402	8136	80	19.6405	0525
56	7.0988	1565	81	20.3398	9992
57	7.4694	1557	82	21.0542	6156
58	7.8522	3643	83	21.7836	6065
59	8.2474	3049	84	22.5281	6396
60	8.6551	4700	85	23.2878	3453
61	9.0755	3207	86	24.0627	3164
62	9.5087	2874	87	24.8529	1086
63	9.9548	7684	88	25.6584	2393
64	10.4141	1302	89	26.4793	1886
65	10.8865	7073	90	27.3156	3983
66	11.3723	8011	91	28.1674	2722
67	11.8716	6805	92	29.0347	1762
68	12.3845	5807	93	29.9175	4376
69	12.9111	7037	94	30.8159	3454
70	13.4516	2175	95	31.7299	1505
71	14.0060	2560	96	32.6595	0651
72	14.5744	9185	97	33.6047	2629
73	15.1571	2699	98	34.5655	8790
74	15.7540	3400	99	35.5421	0100
75	16.3653	1232	100	36.5342	7139

$$e = 5^c$$

θ	mean anomaly		θ	mean anomaly	
100	36.5342	7139	125	66.3653	1232
101	37.5421	0100	126	67.7540	3400
102	38.5655	8790	127	69.1571	2699
103	39.6047	2629	128	70.5744	9185
104	40.6595	0651	129	72.0060	2560
105	41.7299	1505	130	73.4516	2175
106	42.8159	3454	131	74.9111	7037
107	43.9175	4376	132	76.3845	5807
108	45.0347	1762	133	77.8716	6805
109	46.1674	2722	134	79.3723	8011
110	47.3156	3983	135	80.8865	7073
111	48.4793	1886	136	82.4141	1302
112	49.6584	2393	137	83.9548	7684
113	50.8529	1086	138	85.5087	2874
114	52.0627	3164	139	87.0755	3207
115	53.2878	3453	140	88.6551	4700
116	54.5281	6396	141	90.2474	3049
117	55.7836	6065	142	91.8522	3643
118	57.0542	6156	143	93.4694	1557
119	58.3398	9992	144	95.0988	1565
120	59.6405	0525	145	96.7402	8136
121	60.9560	0338	146	98.3936	5443
122	62.2863	1647	147	100.0587	7366
123	63.6313	6301	148	101.7354	7493
124	64.9910	5788	149	103.4235	9128
125	66.3653	1232	150	105.1229	5293

$$e = 5^c$$

θ	mean anomaly		θ	mean anomaly	
150	105.1229	5293	175	150.7127	1714
151	106.8333	8732	176	152.6367	0705
152	108.5547	1916	177	154.5664	6150
153	110.2867	7047	178	156.5017	5108
154	112.0293	6063	179	158.4423	4505
155	113.7823	0642	180	160.3880	1130
156	115.5454	2206	181	162.3385	1652
157	117.3185	1926	182	164.2936	2618
158	119.1014	0727	183	166.2531	0462
159	120.8938	9293	184	168.2167	1511
160	122.6957	8070	185	170.1842	1989
161	124.5068	7273	186	172.1553	8024
162	126.3269	6889	187	174.1299	5655
163	128.1558	6683	188	176.1077	0834
164	129.9933	6205	189	178.0883	9438
165	131.8392	4789	190	180.0717	7270
166	133.6933	1566	191	182.0576	0065
167	135.5553	5461	192	184.0456	3501
168	137.4251	5206	193	186.0356	3199
169	139.3024	9340	194	188.0273	4733
170	141.1871	6215	195	190.0205	3632
171	143.0789	4004	196	192.0149	5393
172	144.9776	0704	197	194.0103	5478
173	146.8829	4140	198	196.0064	9329
174	148.7947	1976	199	198.0031	2366
175	150.7127	1714	200	200.0000	0000

$$e = 6^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	0.7457	3716
1	0.0044	7898	26	0.8289	8785
2	0.0092	0358	27	0.9184	4911
3	0.0144	1939	28	1.0143	4561
4	0.0203	7184	29	1.1169	0040
5	0.0273	0620	30	1.2263	3494
6	0.0354	6751	31	1.3428	6895
7	0.0451	0047	32	1.4667	2041
8	0.0564	4945	33	1.5981	0550
9	0.0697	5838	34	1.7372	3854
10	0.0852	7072	35	1.8843	3193
11	0.1032	2937	36	2.0395	9612
12	0.1238	7663	37	2.2032	3953
13	0.1474	5415	38	2.3754	6852
14	0.1742	0284	39	2.5564	8733
15	0.2043	6284	40	2.7464	9803
16	0.2381	7344	41	2.9457	0048
17	0.2758	7304	42	3.1542	9225
18	0.3176	9906	43	3.3724	6862
19	0.3638	8793	44	3.6004	2249
20	0.4146	7498	45	3.8383	4436
21	0.4702	9442	46	4.0864	2224
22	0.5309	7925	47	4.3448	4168
23	0.5969	6124	48	4.6137	8563
24	0.6684	7085	49	4.8934	3449
25	0.7457	3716	50	5.1839	6598

$$e = 6^c$$

θ	mean anomaly		θ	mean anomaly	
50	5.1839	6598	75	16.4450	2971
51	5.4855	5515	76	17.0712	8409
52	5.7983	7434	77	17.7120	7825
53	6.1225	9308	78	18.3675	0081
54	6.4583	7812	79	19.0376	3681
55	6.8058	9335	80	19.7225	6761
56	7.1652	9975	81	20.4223	7098
57	7.5367	5538	82	21.1371	2096
58	7.9204	1533	83	21.8668	8795
59	8.3164	3167	84	22.6117	3862
60	8.7249	5342	85	23.3717	3593
61	9.1461	2651	86	24.1469	3909
62	9.5800	9378	87	24.9374	0356
63	10.0269	9487	88	25.7431	8106
64	10.4869	6626	89	26.5643	1949
65	10.9601	4119	90	27.4008	6299
66	11.4466	4965	91	28.2528	5189
67	11.9466	1833	92	29.1203	2271
68	12.4601	7061	93	30.0033	0815
69	12.9874	2651	94	30.9018	3708
70	13.5285	0267	95	31.8159	3454
71	14.0835	1233	96	32.7456	2173
72	14.6525	6529	97	33.6909	1598
73	15.2357	6786	98	34.6518	3080
74	15.8332	2290	99	35.6283	7584
75	16.4450	2971	100	36.6205	5687

$$e = 6^c$$

θ	mean anomaly		θ	mean anomaly	
100	36.6205	5687	125	66.4450	2971
101	37.6283	7584	126	67.8332	2290
102	38.6518	3080	127	69.2357	6786
103	39.6909	1598	128	70.6525	6529
104	40.7456	2173	129	72.0835	1233
105	41.8159	3454	130	73.5285	0267
106	42.9018	3708	131	74.9874	2651
107	44.0033	0815	132	76.4601	7061
108	45.1203	2271	133	77.9466	1833
109	46.2528	5189	134	79.4466	4965
110	47.4008	6299	135	80.9601	4119
111	48.5643	1949	136	82.4869	6626
112	49.7431	8106	137	84.0269	9487
113	50.9374	0356	138	85.5800	9378
114	52.1469	3909	139	87.1461	2651
115	53.3717	3593	140	88.7249	5342
116	54.6117	3862	141	90.3164	3167
117	55.8668	8795	142	91.9204	1533
118	57.1371	2096	143	93.5367	5538
119	58.4223	7098	144	95.1652	9975
120	59.7225	6761	145	96.8058	9335
121	61.0376	3681	146	98.4583	7812
122	62.3675	0081	147	100.1225	9308
123	63.7120	7825	148	101.7983	7434
124	65.0712	8409	149	103.4855	5515
125	66.4450	2971	150	105.1839	6598

$$e = 6^c$$

θ	mean anomaly		θ	mean anomaly	
150	105.1839	6598	175	150.7457	3716
151	106.8934	3449	176	152.6684	7085
152	108.6137	8563	177	154.5969	6124
153	110.3448	4168	178	156.5309	7925
154	112.0864	2224	179	158.4702	9442
155	113.8383	4436	180	160.4146	7498
156	115.6004	2249	181	162.3638	8793
157	117.3724	6862	182	164.3176	9906
158	119.1542	9225	183	166.2758	7304
159	120.9457	0048	184	168.2381	7344
160	122.7464	9803	185	170.2043	6284
161	124.5564	8733	186	172.1742	0284
162	126.3754	6852	187	174.1474	5415
163	128.2032	3953	188	176.1238	7663
164	130.0395	9612	189	178.1032	2937
165	131.8843	3193	190	180.0852	7072
166	133.7372	3854	191	182.0697	5838
167	135.5981	0550	192	184.0564	4945
168	137.4667	2041	193	186.0451	0047
169	139.3428	6895	194	188.0354	6751
170	141.2263	3494	195	190.0273	0620
171	143.1169	0040	196	192.0203	7184
172	145.0143	4561	197	194.0144	1939
173	146.9184	4911	198	196.0092	0358
174	148.8289	8785	199	198.0044	7898
175	150.7457	3716	200	200.0000	0000

$$e = 7^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	0.7847	4156
1	0.0060	7992	26	0.8694	6652
2	0.0124	0507	27	0.9603	9206
3	0.0192	2064	28	1.0577	4248
4	0.0267	7166	29	1.1617	4050
5	0.0353	0302	30	1.2726	0720
6	0.0450	5935	31	1.3905	6195
7	0.0562	8497	32	1.5158	2239
8	0.0692	2384	33	1.6486	0434
9	0.0841	1952	34	1.7891	2178
10	0.1012	1505	35	1.9375	8677
11	0.1207	5297	36	2.0942	0941
12	0.1429	7517	37	2.2591	9781
13	0.1681	2292	38	2.4327	5797
14	0.1964	3674	39	2.6150	9382
15	0.2281	5638	40	2.8064	0711
16	0.2635	2076	41	3.0068	9735
17	0.3027	6788	42	3.2167	6183
18	0.3461	3479	43	3.4361	9548
19	0.3938	5752	44	3.6653	9092
20	0.4461	7104	45	3.9045	3831
21	0.5033	0918	46	4.1538	2540
22	0.5655	0457	47	4.4134	3740
23	0.6329	8860	48	4.6835	5701
24	0.7059	9136	49	4.9643	6429
25	0.7847	4156	50	5.2560	3671

$$e = 7^c$$

θ	mean anomaly		θ	mean anomaly	
50	5.2560	3671	75	16.5391	9466
51	5.5587	4903	76	17.1660	5008
52	5.8726	7330	77	17.8074	2189
53	6.1979	7880	78	18.4633	9859
54	6.5348	3200	79	19.1340	6505
55	6.8833	9652	80	19.8195	0253
56	7.2438	3309	81	20.5197	8866
57	7.6162	9951	82	21.2349	9737
58	8.0009	5062	83	21.9651	9893
59	8.3979	3825	84	22.7104	5992
60	8.8074	1118	85	23.4708	4319
61	9.2295	1512	86	24.2464	0785
62	9.6643	9265	87	25.0372	0929
63	10.1121	8321	88	25.8432	9912
64	10.5730	2304	89	26.6647	2519
65	11.0470	4519	90	27.5015	3155
66	11.5343	7941	91	28.3537	5848
67	12.0351	5222	92	29.2214	4242
68	12.5494	8677	93	30.1046	1604
69	13.0775	0291	94	31.0033	0815
70	13.6193	1709	95	31.9175	4376
71	14.1750	4237	96	32.8473	4401
72	14.7447	8834	97	33.7927	2624
73	15.3286	6119	98	34.7537	0392
74	15.9267	6357	99	35.7302	8667
75	16.5391	9466	100	36.7224	8028

$$e = 7^c$$

θ	mean anomaly		θ	mean anomaly	
100	36.7224	8028	125	66.5391	9466
101	37.7302	8667	126	67.9267	6357
102	38.7537	0392	127	69.3286	6119
103	39.7927	2624	128	70.7447	8834
104	40.8473	4401	129	72.1750	4237
105	41.9175	4376	130	73.6193	1709
106	43.0033	0815	131	75.0775	0291
107	44.1046	1604	132	76.5494	8677
108	45.2214	4242	133	78.0351	5222
109	46.3537	5848	134	79.5343	7941
110	47.5015	3155	135	81.0470	4519
111	48.6647	2519	136	82.5730	2304
112	49.8432	9912	137	84.1121	8321
113	51.0372	0929	138	85.6643	9265
114	52.2464	0785	139	87.2295	1512
115	53.4708	4319	140	88.8074	1118
116	54.7104	5992	141	90.3979	3825
117	55.9651	9893	142	92.0009	5062
118	57.2349	9737	143	93.6162	9951
119	58.5197	8866	144	95.2438	3309
120	59.8195	0253	145	96.8833	9652
121	61.1340	6505	146	98.5348	3200
122	62.4633	9859	147	100.1979	7880
123	63.8074	2189	148	101.8726	7330
124	65.1660	5008	149	103.5587	4903
125	66.5391	9466	150	105.2560	3671

$$e = 7^c$$

θ	mean anomaly		θ	mean anomaly	
150	105.2560	3671	175	150.7847	4156
151	106.9643	6429	176	152.7059	9136
152	108.6835	5701	177	154.6329	8860
153	110.4134	3740	178	156.5655	0457
154	112.1538	2540	179	158.5033	0918
155	113.9045	3831	180	160.4461	7104
156	115.6653	9092	181	162.3938	5752
157	117.4361	9548	182	164.3461	3479
158	119.2167	6183	183	166.3027	6788
159	121.0068	9735	184	168.2635	2076
160	122.8064	0711	185	170.2281	5638
161	124.6150	9382	186	172.1964	3674
162	126.4327	5797	187	174.1681	2292
163	128.2591	9781	188	176.1429	7517
164	130.0942	0941	189	178.1207	5297
165	131.9375	8677	190	180.1012	1505
166	133.7891	2178	191	182.0841	1952
167	135.6486	0434	192	184.0692	2384
168	137.5158	2239	193	186.0562	8497
169	139.3905	6195	194	188.0450	5935
170	141.2726	0720	195	190.0353	0302
171	143.1617	4050	196	192.0267	7166
172	145.0577	4248	197	194.0192	2064
173	146.9603	9206	198	196.0124	0507
174	148.8694	6652	199	198.0060	7992
175	150.7847	4156	200	200.0000	0000

$$e = 8^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	0.8297	2071
1	0.0079	2610	26	0.9161	4577
2	0.0160	9697	27	1.0087	5989
3	0.0247	5735	28	1.1077	8696
4	0.0341	5182	29	1.2134	4928
5	0.0445	2481	30	1.3259	6751
6	0.0561	2048	31	1.4455	6064
7	0.0691	8272	32	1.5724	4588
8	0.0839	5503	33	1.7068	3866
9	0.1006	8051	34	1.8489	5256
10	0.1196	0176	35	1.9989	9926
11	0.1409	6086	36	2.1571	8845
12	0.1649	9926	37	2.3237	2786
13	0.1919	5776	38	2.4988	2311
14	0.2220	7647	39	2.6826	7775
15	0.2555	9466	40	2.8754	9315
16	0.2927	5082	41	3.0774	6846
17	0.3337	8251	42	3.2888	0059
18	0.3789	2634	43	3.5096	8412
19	0.4284	1790	44	3.7403	1130
20	0.4824	9172	45	3.9808	7196
21	0.5413	8120	46	4.2315	5348
22	0.6053	1854	47	4.4925	4073
23	0.6745	3469	48	4.7640	1606
24	0.7492	5931	49	5.0461	5923
25	0.8297	2071	50	5.3391	4735

$$e = 8^c$$

θ	mean anomaly		θ	mean anomaly	
50	5.3391	4735	75	16.6477	8394
51	5.6431	5486	76	17.2753	3246
52	5.9583	5350	77	17.9173	7042
53	6.2849	1222	78	18.5739	8613
54	6.6229	9720	79	19.2452	6432
55	6.9727	7174	80	19.9312	8609
56	7.3343	9628	81	20.6321	2893
57	7.7080	2833	82	21.3478	6663
58	8.0938	2243	83	22.0785	6934
59	8.4919	3014	84	22.8243	0349
60	8.9024	9996	85	23.5851	3184
61	9.3256	7732	86	24.3611	1339
62	9.7616	0455	87	25.1523	0341
63	10.2104	2082	88	25.9587	5342
64	10.6722	6213	89	26.7805	1118
65	11.1472	6126	90	27.6176	2067
66	11.6355	4775	91	28.4701	2208
67	12.1372	4785	92	29.3380	5180
68	12.6524	8452	93	30.2214	4242
69	13.1813	7736	94	31.1203	2271
70	13.7240	4261	95	32.0347	1762
71	14.2805	9310	96	32.9646	4827
72	14.8511	3827	97	33.9101	3195
73	15.4357	8406	98	34.8711	8211
74	16.0346	3296	99	35.8478	0836
75	16.6477	8394	100	36.8400	1647

$$e = 8^c$$

θ	mean anomaly		θ	mean anomaly	
100	36.8400	1647	125	66.6477	8394
101	37.8478	0836	126	68.0346	3296
102	38.8711	8211	127	69.4357	8406
103	39.9101	3195	128	70.8511	3827
104	40.9646	4827	129	72.2805	9310
105	42.0347	1762	130	73.7240	4261
106	43.1203	2271	131	75.1813	7736
107	44.2214	4242	132	76.6524	8452
108	45.3380	5180	133	78.1372	4785
109	46.4701	2208	134	79.6355	4775
110	47.6176	2067	135	81.1472	6126
111	48.7805	1118	136	82.6722	6213
112	49.9587	5342	137	84.2104	2082
113	51.1523	0341	138	85.7616	0455
114	52.3611	1339	139	87.3256	7732
115	53.5851	3184	140	88.9024	9996
116	54.8243	0349	141	90.4919	3014
117	56.0785	6934	142	92.0938	2243
118	57.3478	6663	143	93.7080	2833
119	58.6321	2893	144	95.3343	9628
120	59.9312	8609	145	96.9727	7174
121	61.2452	6432	146	98.6229	9720
122	62.5739	8613	147	100.2849	1222
123	63.9173	7042	148	101.9583	5350
124	65.2753	3246	149	103.6431	5486
125	66.6477	8394	150	105.3391	4735

$$e = 8^c$$

θ	mean anomaly		θ	mean anomaly	
150	105.3391	4735	175	150.8297	2071
151	107.0461	5923	176	152.7492	5931
152	108.7640	1606	177	154.6745	3469
153	110.4925	4073	178	156.6053	1854
154	112.2315	5348	179	158.5413	8120
155	113.9808	7196	180	160.4824	9172
156	115.7403	1130	181	162.4284	1790
157	117.5096	8412	182	164.3789	2634
158	119.2888	0059	183	166.3337	8251
159	121.0774	6846	184	168.2927	5082
160	122.8754	9315	185	170.2555	9466
161	124.6826	7775	186	172.2220	7647
162	126.4988	2311	187	174.1919	5776
163	128.3237	2786	188	176.1649	9926
164	130.1571	8845	189	178.1409	6086
165	131.9989	9926	190	180.1196	0176
166	133.8489	5256	191	182.1006	8051
167	135.7068	3866	192	184.0839	5503
168	137.5724	4588	193	186.0691	8272
169	139.4455	6064	194	188.0561	2048
170	141.3259	6751	195	190.0445	2481
171	143.2134	4928	196	192.0341	5182
172	145.1077	8696	197	194.0247	5735
173	147.0087	5989	198	196.0160	9697
174	148.9161	4577	199	198.0079	2610
175	150.8297	2071	200	200.0000	0000

$$e = 9^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	0.8806	6352
1	0.0100	1705	26	0.9690	1408
2	0.0202	7837	27	1.0635	4067
3	0.0310	2816	28	1.1644	6668
4	0.0425	1049	29	1.2720	1397
5	0.0549	6928	30	1.3864	0271
6	0.0686	4818	31	1.5078	5144
7	0.0837	9055	32	1.6365	7691
8	0.1006	3939	33	1.7727	9410
9	0.1194	3728	34	1.9167	1614
10	0.1404	2632	35	2.0685	5425
11	0.1638	4805	36	2.2285	1770
12	0.1899	4345	37	2.3968	1376
13	0.2189	5280	38	2.5736	4763
14	0.2511	1569	39	2.7592	2243
15	0.2866	7090	40	2.9537	3910
16	0.3258	5641	41	3.1573	9638
17	0.3689	0928	42	3.3703	9075
18	0.4160	6562	43	3.5929	1641
19	0.4675	6054	44	3.8251	6517
20	0.5236	2806	45	4.0673	2647
21	0.5845	0108	46	4.3195	8729
22	0.6504	1132	47	4.5821	3214
23	0.7215	8925	48	4.8551	4295
24	0.7982	6404	49	5.1387	9912
25	0.8806	6352	50	5.4332	7738

$$e = 9^c$$

θ	mean anomaly		θ	mean anomaly	
50	5.4332	7738	75	16.7707	7076
51	5.7387	5181	76	17.3991	0428
52	6.0553	9378	77	18.0418	9670
53	6.3833	7189	78	18.6992	3615
54	6.7228	5196	79	19.3712	0717
55	7.0739	9695	80	20.0578	9071
56	7.4369	6698	81	20.7593	6406
57	7.8119	1920	82	21.4757	0089
58	8.1990	0784	83	22.2069	7119
59	8.5983	8414	84	22.9532	4126
60	9.0101	9628	85	23.7145	7370
61	9.4345	8939	86	24.4910	2740
62	9.8717	0549	87	25.2826	5752
63	10.3216	8347	88	26.0895	1547
64	10.7846	5904	89	26.9116	4891
65	11.2607	6469	90	27.7491	0172
66	11.7501	2970	91	28.6019	1400
67	12.2528	8005	92	29.4701	2208
68	12.7691	3844	93	30.3537	5848
69	13.2990	2421	94	31.2528	5189
70	13.8426	5337	95	32.1674	2722
71	14.4001	3851	96	33.0975	0556
72	14.9715	8882	97	34.0431	0414
73	15.5571	1003	98	35.0042	3639
74	16.1568	0442	99	35.9809	1191
75	16.7707	7076	100	36.9731	3644

$$e = 9^c$$

θ	mean anomaly		θ	mean anomaly	
100	36.9731	3644	125	66.7707	7076
101	37.9809	1191	126	68.1568	0442
102	39.0042	3639	127	69.5571	1003
103	40.0431	0414	128	70.9715	8882
104	41.0975	0556	129	72.4001	3851
105	42.1674	2722	130	73.8426	5337
106	43.2528	5189	131	75.2990	2421
107	44.3537	5848	132	76.7691	3844
108	45.4701	2208	133	78.2528	8005
109	46.6019	1400	134	79.7501	2970
110	47.7491	0172	135	81.2607	6469
111	48.9116	4891	136	82.7846	5904
112	50.0895	1547	137	84.3216	8347
113	51.2826	5752	138	85.8717	0549
114	52.4910	2740	139	87.4345	8939
115	53.7145	7370	140	89.0101	9628
116	54.9532	4126	141	90.5983	8414
117	56.2069	7119	142	92.1990	0784
118	57.4757	0089	143	93.8119	1920
119	58.7593	6406	144	95.4369	6698
120	60.0578	9071	145	97.0739	9695
121	61.3712	0717	146	98.7228	5196
122	62.6992	3615	147	100.3833	7189
123	64.0418	9670	148	102.0553	9378
124	65.3991	0428	149	103.7387	5181
125	66.7707	7076	150	105.4332	7738

$$e = 9^c$$

θ	mean anomaly		θ	mean anomaly	
150	105.4332	7738	175	150.8806	6352
151	107.1387	9912	176	152.7982	6404
152	108.8551	4295	177	154.7215	8925
153	110.5821	3214	178	156.6504	1132
154	112.3195	8729	179	158.5845	0108
155	114.0673	2647	180	160.5236	2806
156	115.8251	6517	181	162.4675	6054
157	117.5929	1641	182	164.4160	6562
158	119.3703	9075	183	166.3689	0928
159	121.1573	9638	184	168.3258	5641
160	122.9537	3910	185	170.2866	7090
161	124.7592	2243	186	172.2511	1569
162	126.5736	4763	187	174.2189	5280
163	128.3968	1376	188	176.1899	4345
164	130.2285	1770	189	178.1638	4805
165	132.0685	5425	190	180.1404	2632
166	133.9167	1614	191	182.1194	3728
167	135.7727	9410	192	184.1006	3939
168	137.6365	7691	193	186.0837	9055
169	139.5078	5144	194	188.0686	4818
170	141.3864	0271	195	190.0549	6928
171	143.2720	1397	196	192.0425	1049
172	145.1644	6668	197	194.0310	2816
173	147.0635	4067	198	196.0202	7837
174	148.9690	1408	199	198.0100	1705
175	150.8806	6352	200	200.0000	0000

$$e = 10^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	0.9375	5741
1	0.0123	5228	26	1.0280	5842
2	0.0249	4824	27	1.1247	2088
3	0.0380	3152	28	1.2277	6768
4	0.0518	4562	29	1.3374	2012
5	0.0666	3386	30	1.4538	9789
6	0.0826	3934	31	1.5774	1899
7	0.1001	0485	32	1.7081	9967
8	0.1192	7279	33	1.8464	5439
9	0.1403	8519	34	1.9923	9579
10	0.1636	8357	35	2.1462	3459
11	0.1894	0891	36	2.3081	7956
12	0.2178	0160	37	2.4784	3748
13	0.2491	0137	38	2.6572	1308
14	0.2835	4724	39	2.8447	0898
15	0.3213	7744	40	3.0411	2567
16	0.3628	2936	41	3.2466	6140
17	0.4081	3953	42	3.4615	1220
18	0.4575	4349	43	3.6858	7180
19	0.5112	7578	44	3.9199	3157
20	0.5695	6989	45	4.1638	8050
21	0.6326	5817	46	4.4179	0513
22	0.7007	7179	47	4.6821	8952
23	0.7741	4067	48	4.9569	1519
24	0.8529	9345	49	5.2422	6110
25	0.9375	5741	50	5.5384	0358

$$e = 10^c$$

θ	mean anomaly		θ	mean anomaly	
50	5.5384	0358	75	16.9081	2476
51	5.8455	1630	76	17.5373	3499
52	6.1637	7020	77	18.1809	7001
53	6.4933	3352	78	18.8391	1774
54	6.8343	7165	79	19.5118	6254
55	7.1870	4720	80	20.1992	8514
56	7.5515	1988	81	20.9014	6268
57	7.9279	4649	82	21.6184	6863
58	8.3164	8090	83	22.3503	7281
59	8.7172	7398	84	23.0972	4139
60	9.1304	7357	85	23.8591	3681
61	9.5562	2445	86	24.6361	1783
62	9.9946	6831	87	25.4282	3946
63	10.4459	4371	88	26.2355	5301
64	10.9101	8604	89	27.0581	0600
65	11.3875	2748	90	27.8959	4224
66	11.8780	9700	91	28.7491	0172
67	12.3820	2029	92	29.6176	2067
68	12.8994	1975	93	30.5015	3155
69	13.4304	1445	94	31.4008	6299
70	13.9751	2011	95	32.3156	3983
71	14.5336	4908	96	33.2458	8309
72	15.1061	1027	97	34.1916	1000
73	15.6926	0918	98	35.1528	3394
74	16.2932	4784	99	36.1295	6447
75	16.9081	2476	100	37.1218	0734

$$e = 10^c$$

θ	mean anomaly		θ	mean anomaly	
100	37.1218	0734	125	66.9081	2476
101	38.1295	6447	126	68.2932	4784
102	39.1528	3394	127	69.6926	0918
103	40.1916	1000	128	71.1061	1027
104	41.2458	8309	129	72.5336	4908
105	42.3156	3983	130	73.9751	2011
106	43.4008	6299	131	75.4304	1445
107	44.5015	3155	132	76.8994	1975
108	45.6176	2067	133	78.3820	2029
109	46.7491	0172	134	79.8780	9700
110	47.8959	4224	135	81.3875	2748
111	49.0581	0600	136	82.9101	8604
112	50.2355	5301	137	84.4459	4371
113	51.4282	3946	138	85.9946	6831
114	52.6361	1783	139	87.5562	2445
115	53.8591	3681	140	89.1304	7357
116	55.0972	4139	141	90.7172	7398
117	56.3503	7281	142	92.3164	8090
118	57.6184	6863	143	93.9279	4649
119	58.9014	6268	144	95.5515	1988
120	60.1992	8514	145	97.1870	4720
121	61.5118	6254	146	98.8343	7165
122	62.8391	1774	147	100.4933	3352
123	64.1809	7001	148	102.1637	7020
124	65.5373	3499	149	103.8455	1630
125	66.9081	2476	150	105.5384	0358

$$e = 10^c$$

θ	mean anomaly		θ	mean anomaly	
150	105.5384	0358	175	150.9375	5741
151	107.2422	6110	176	152.8529	9345
152	108.9569	1519	177	154.7741	4067
153	110.6821	8952	178	156.7007	7179
154	112.4179	0513	179	158.6326	5817
155	114.1638	8050	180	160.5695	6989
156	115.9199	3157	181	162.5112	7578
157	117.6858	7180	182	164.4575	4349
158	119.4615	1220	183	166.4081	3953
159	121.2466	6140	184	168.3628	2936
160	123.0411	2567	185	170.3213	7744
161	124.8447	0898	186	172.2835	4724
162	126.6572	1308	187	174.2491	0137
163	128.4784	3748	188	176.2178	0160
164	130.3081	7956	189	178.1894	0891
165	132.1462	3459	190	180.1636	8357
166	133.9923	9579	191	182.1403	8519
167	135.8464	5439	192	184.1192	7279
168	137.7081	9967	193	186.1001	0485
169	139.5774	1899	194	188.0826	3934
170	141.4538	9789	195	190.0666	3386
171	143.3374	2012	196	192.0518	4562
172	145.2277	6768	197	194.0380	3152
173	147.1247	2088	198	196.0249	4824
174	149.0280	5842	199	198.0123	5228
175	150.9375	5741	200	200.0000	0000

$$e = 11^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	1.0003	8835
1	0.0149	3118	26	1.0932	6421
2	0.0301	0542	27	1.1922	8543
3	0.0457	6570	28	1.2976	7432
4	0.0621	5489	29	1.4096	5160
5	0.0795	1568	30	1.5284	3640
6	0.0980	9053	31	1.6542	4612
7	0.1181	2159	32	1.7872	9647
8	0.1398	5065	33	1.9278	0135
9	0.1635	1908	34	2.0759	7284
10	0.1893	6779	35	2.2320	2110
11	0.2176	3712	36	2.3961	5436
12	0.2485	6683	37	2.5685	7888
13	0.2823	9604	38	2.7494	9883
14	0.3193	6312	39	2.9391	1631
15	0.3597	0570	40	3.1376	3128
16	0.4036	6055	41	3.3452	4149
17	0.4514	6357	42	3.5621	4244
18	0.5033	4968	43	3.7885	2736
19	0.5595	5284	44	4.0245	8713
20	0.6203	0590	45	4.2705	1023
21	0.6858	4061	46	4.5264	8272
22	0.7563	8753	47	4.7926	8818
23	0.8321	7600	48	5.0693	0767
24	0.9134	3404	49	5.3565	1966
25	1.0003	8835	50	5.6545	0002

$$e = 11^c$$

θ	mean anomaly		θ	mean anomaly	
50	5.6545	0002	75	17.0598	1207
51	5.9634	2198	76	17.6899	9049
52	6.2834	5603	77	18.3345	5604
53	6.6147	6996	78	18.9935	9640
54	6.9575	2876	79	19.6671	9571
55	7.3118	9457	80	20.3554	3451
56	7.6780	2672	81	21.0583	8970
57	8.0560	8158	82	21.7761	3460
58	8.4462	1263	83	22.5087	3883
59	8.8485	7033	84	23.2562	6837
60	9.2633	0215	85	24.0187	8552
61	9.6905	5249	86	24.7963	4887
62	10.1304	6266	87	25.5890	1331
63	10.5831	7087	88	26.3968	2999
64	11.0488	1215	89	27.2198	4633
65	11.5275	1834	90	28.0581	0600
66	12.0194	1807	91	28.9116	4891
67	12.5246	3669	92	29.7805	1118
68	13.0432	9630	93	30.6647	2519
69	13.5755	1565	94	31.5643	1949
70	14.1214	1016	95	32.4793	1886
71	14.6810	9188	96	33.4097	4427
72	15.2546	6945	97	34.3556	1289
73	15.8422	4808	98	35.3169	3808
74	16.4439	2952	99	36.2937	2937
75	17.0598	1207	100	37.2859	9250

$$e = 11^c$$

θ	mean anomaly		θ	mean anomaly	
100	37.2859	9250	125	67.0598	1207
101	38.2937	2937	126	68.4439	2952
102	39.3169	3808	127	69.8422	4808
103	40.3556	1289	128	71.2546	6945
104	41.4097	4427	129	72.6810	9188
105	42.4793	1886	130	74.1214	1016
106	43.5643	1949	131	75.5755	1565
107	44.6647	2519	132	77.0432	9630
108	45.7805	1118	133	78.5246	3669
109	46.9116	4891	134	80.0194	1807
110	48.0581	0600	135	81.5275	1834
111	49.2198	4633	136	83.0488	1215
112	50.3968	2999	137	84.5831	7087
113	51.5890	1331	138	86.1304	6266
114	52.7963	4887	139	87.6905	5249
115	54.0187	8552	140	89.2633	0215
116	55.2562	6837	141	90.8485	7033
117	56.5087	3883	142	92.4462	1263
118	57.7761	3460	143	94.0560	8158
119	59.0583	8970	144	95.6780	2672
120	60.3554	3451	145	97.3118	9457
121	61.6671	9571	146	98.9575	2876
122	62.9935	9640	147	100.6147	6996
123	64.3345	5604	148	102.2834	5603
124	65.6899	9049	149	103.9634	2198
125	67.0598	1207	150	105.6545	0002

$$e = 11^c$$

θ	mean anomaly		θ	mean anomaly	
150	105.6545	0002	175	151.0003	8835
151	107.3565	1966	176	152.9134	3404
152	109.0693	0767	177	154.8321	7600
153	110.7926	8818	178	156.7563	8753
154	112.5264	8272	179	158.6858	4061
155	114.2705	1023	180	160.6203	0590
156	116.0245	8713	181	162.5595	5284
157	117.7885	2736	182	164.5033	4968
158	119.5621	4244	183	166.4514	6357
159	121.3452	4149	184	168.4036	6055
160	123.1376	3128	185	170.3597	0570
161	124.9391	1631	186	172.3193	6312
162	126.7494	9883	187	174.2823	9604
163	128.5685	7888	188	176.2485	6683
164	130.3961	5436	189	178.2176	3712
165	132.2320	2110	190	180.1893	6779
166	134.0759	7284	191	182.1635	1908
167	135.9278	0135	192	184.1398	5065
168	137.7872	9647	193	186.1181	2159
169	139.6542	4612	194	188.0980	9053
170	141.5284	3640	195	190.0795	1568
171	143.4096	5160	196	192.0621	5489
172	145.2976	7432	197	194.0457	6570
173	147.1922	8543	198	196.0301	0542
174	149.0932	6421	199	198.0149	3118
175	151.0003	8835	200	200.0000	0000

$$e = 12^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	1.0691	4084
1	0.0177	5314	26	1.1646	1536
2	0.0357	4864	27	1.2662	1765
3	0.0542	2879	28	1.3741	6936
4	0.0734	3576	29	1.4886	9059
5	0.0936	1156	30	1.6099	9983
6	0.1149	9793	31	1.7383	1388
7	0.1378	3634	32	1.8738	4781
8	0.1623	6788	33	2.0168	1491
9	0.1888	3324	34	2.1674	2666
10	0.2174	7263	35	2.3258	9261
11	0.2485	2571	36	2.4924	2042
12	0.2822	3155	37	2.6672	1571
13	0.3188	2858	38	2.8504	8211
14	0.3585	5450	39	3.0424	2112
15	0.4016	4624	40	3.2432	3213
16	0.4483	3990	41	3.4531	1233
17	0.4988	7071	42	3.6722	5665
18	0.5534	7292	43	3.9008	5777
19	0.6123	7980	44	4.1391	0602
20	0.6758	2355	45	4.3871	8935
21	0.7440	3525	46	4.6452	9328
22	0.8172	4481	47	4.9136	0087
23	0.8956	8090	48	5.1922	9265
24	0.9795	7090	49	5.4815	4659
25	1.0691	4084	50	5.7815	3805

$$e = 12^c$$

θ	mean anomaly		θ	mean anomaly	
50	5.7815	3805	75	17.2257	9525
51	6.0924	3976	76	17.8570	3312
52	6.4144	2174	77	18.5026	1688
53	6.7476	5127	78	19.1626	3401
54	7.0922	9289	79	19.8371	6837
55	7.4485	0827	80	20.5263	0028
56	7.8164	5628	81	21.2301	0643
57	8.1962	9285	82	21.9486	5991
58	8.5881	7101	83	22.6820	3015
59	8.9922	4080	84	23.4302	8296
60	9.4086	4925	85	24.1934	8043
61	9.8375	4037	86	24.9716	8101
62	10.2790	5505	87	25.7649	3941
63	10.7333	3111	88	26.5733	0664
64	11.2005	0318	89	27.3968	2999
65	11.6807	0274	90	28.2355	5301
66	12.1740	5803	91	29.0895	1547
67	12.6806	9407	92	29.9587	5342
68	13.2007	3259	93	30.8432	9912
69	13.7342	9201	94	31.7431	8106
70	14.2814	8742	95	32.6584	2393
71	14.8424	3053	96	33.5890	4866
72	15.4172	2968	97	34.5350	7235
73	16.0059	8979	98	35.4965	0833
74	16.6088	1231	99	36.4733	6611
75	17.2257	9525	100	37.4656	5140

$$e = 12^c$$

θ	mean anomaly		θ	mean anomaly	
100	37.4656	5140	125	67.2257	9525
101	38.4733	6611	126	68.6088	1231
102	39.4965	0833	127	70.0059	8979
103	40.5350	7235	128	71.4172	2968
104	41.5890	4866	129	72.8424	3053
105	42.6584	2393	130	74.2814	8742
106	43.7431	8106	131	75.7342	9201
107	44.8432	9912	132	77.2007	3259
108	45.9587	5342	133	78.6806	9407
109	47.0895	1547	134	80.1740	5803
110	48.2355	5301	135	81.6807	0274
111	49.3968	2999	136	83.2005	0318
112	50.5733	0664	137	84.7333	3111
113	51.7649	3941	138	86.2790	5505
114	52.9716	8101	139	87.8375	4037
115	54.1934	8043	140	89.4086	4925
116	55.4302	8296	141	90.9922	4080
117	56.6820	3015	142	92.5881	7101
118	57.9486	5991	143	94.1962	9285
119	59.2301	0643	144	95.8164	5628
120	60.5263	0028	145	97.4485	0827
121	61.8371	6837	146	99.0922	9289
122	63.1626	3401	147	100.7476	5127
123	64.5026	1688	148	102.4144	2174
124	65.8570	3312	149	104.0924	3976
125	67.2257	9525	150	105.7815	3805

$$e = 12^c$$

θ	mean anomaly		θ	mean anomaly	
150	105.7815	3805	175	151.0691	4084
151	107.4815	4659	176	152.9795	7090
152	109.1922	9265	177	154.8956	8090
153	110.9136	0087	178	156.8172	4481
154	112.6452	9328	179	158.7440	3525
155	114.3871	8935	180	160.6758	2355
156	116.1391	0602	181	162.6123	7980
157	117.9008	5777	182	164.5534	7292
158	119.6722	5665	183	166.4988	7071
159	121.4531	1233	184	168.4483	3990
160	123.2432	3213	185	170.4016	4624
161	125.0424	2112	186	172.3585	5450
162	126.8504	8211	187	174.3188	2858
163	128.6672	1571	188	176.2822	3155
164	130.4924	2042	189	178.2485	2571
165	132.3258	9261	190	180.2174	7263
166	134.1674	2666	191	182.1888	3324
167	136.0168	1491	192	184.1623	6788
168	137.8738	4781	193	186.1378	3634
169	139.7383	1388	194	188.1149	9793
170	141.6099	9983	195	190.0936	1156
171	143.4886	9059	196	192.0734	3576
172	145.3741	6936	197	194.0542	2879
173	147.2662	1765	198	196.0357	4864
174	149.1646	1536	199	198.0177	5314
175	151.0691	4084	200	200.0000	0000

$$e = 13^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	1.1437	9791
1	0.0208	1746	26	1.2420	9428
2	0.0418	7651	27	1.3464	9929
3	0.0634	1871	28	1.4572	3392
4	0.0856	8546	29	1.5745	1758
5	0.1089	1801	30	1.6985	6807
6	0.1333	5736	31	1.8296	0152
7	0.1592	4422	32	1.9678	3232
8	0.1868	1893	33	2.1134	7311
9	0.2163	2143	34	2.2667	3469
10	0.2479	9117	35	2.4278	2598
11	0.2820	6707	36	2.5969	5396
12	0.3187	8746	37	2.7743	2365
13	0.3583	9001	38	2.9601	3801
14	0.4011	1170	39	3.1545	9793
15	0.4471	8870	40	3.3579	0217
16	0.4968	5640	41	3.5702	4730
17	0.5503	4926	42	3.7918	2766
18	0.6079	0082	43	4.0228	3531
19	0.6697	4363	44	4.2634	5999
20	0.7361	0916	45	4.5138	8908
21	0.8072	2776	46	4.7743	0750
22	0.8833	2862	47	5.0448	9775
23	0.9646	3971	48	5.3258	3979
24	1.0513	8769	49	5.6173	1104
25	1.1437	9791	50	5.9194	8632

$$e = 13^c$$

θ	mean anomaly		θ	mean anomaly	
50	5.9194	8632	75	17.4060	3336
51	6.2325	3781	76	18.0384	2164
52	6.5566	3500	77	18.6851	1109
53	6.8919	4466	78	19.3461	8885
54	7.2386	3079	79	20.0217	3857
55	7.5968	5459	80	20.7118	4029
56	7.9667	7441	81	21.4165	7048
57	8.3485	4571	82	22.1360	0198
58	8.7423	2102	83	22.8702	0404
59	9.1482	4993	84	23.6192	4222
60	9.5664	7902	85	24.3831	7844
61	9.9971	5182	86	25.1620	7097
62	10.4404	0881	87	25.9559	7434
63	10.8963	8736	88	26.7649	3941
64	11.3652	2169	89	27.5890	1331
65	11.8470	4287	90	28.4282	3946
66	12.3419	7875	91	29.2826	5752
67	12.8501	5393	92	30.1523	0341
68	13.3716	8979	93	31.0372	0929
69	13.9067	0436	94	31.9374	0356
70	14.4553	1238	95	32.8529	1086
71	15.0176	2522	96	33.7837	5201
72	15.5937	5087	97	34.7299	4409
73	16.1837	9392	98	35.6915	0038
74	16.7878	5552	99	36.6684	3036
75	17.4060	3336	100	37.6607	3972

$$e = 13^c$$

θ	mean anomaly		θ	mean anomaly	
100	37.6607	3972	125	67.4060	3336
101	38.6684	3036	126	68.7878	5552
102	39.6915	0038	127	70.1837	9392
103	40.7299	4409	128	71.5937	5087
104	41.7837	5201	129	73.0176	2522
105	42.8529	1086	130	74.4553	1238
106	43.9374	0356	131	75.9067	0436
107	45.0372	0929	132	77.3716	8979
108	46.1523	0341	133	78.8501	5393
109	47.2826	5752	134	80.3419	7875
110	48.4282	3946	135	81.8470	4287
111	49.5890	1331	136	83.3652	2169
112	50.7649	3941	137	84.8963	8736
113	51.9559	7434	138	86.4404	0881
114	53.1620	7097	139	87.9971	5182
115	54.3831	7844	140	89.5664	7902
116	55.6192	4222	141	91.1482	4993
117	56.8702	0404	142	92.7423	2102
118	58.1360	0198	143	94.3485	4571
119	59.4165	7048	144	95.9667	7441
120	60.7118	4029	145	97.5968	5459
121	62.0217	3857	146	99.2386	3079
122	63.3461	8885	147	100.8919	4466
123	64.6851	1109	148	102.5566	3500
124	66.0384	2164	149	104.2325	3781
125	67.4060	3336	150	105.9194	8632

$$e = 13^c$$

θ	mean anomaly		θ	mean anomaly	
150	105.9194	8632	175	151.1437	9791
151	107.6173	1104	176	153.0513	8769
152	109.3258	3979	177	154.9646	3971
153	111.0448	9775	178	156.8833	2862
154	112.7743	0750	179	158.8072	2776
155	114.5138	8908	180	160.7361	0916
156	116.2634	5999	181	162.6697	4363
157	118.0228	3531	182	164.6079	0082
158	119.7918	2766	183	166.5503	4926
159	121.5702	4730	184	168.4968	5640
160	123.3579	0217	185	170.4471	8870
161	125.1545	9793	186	172.4011	1170
162	126.9601	3801	187	174.3583	9001
163	128.7743	2365	188	176.3187	8746
164	130.5969	5396	189	178.2820	6707
165	132.4278	2598	190	180.2479	9117
166	134.2667	3469	191	182.2163	2143
167	136.1134	7311	192	184.1868	1893
168	137.9678	3232	193	186.1592	4422
169	139.8296	0152	194	188.1333	5736
170	141.6985	6807	195	190.1089	1801
171	143.5745	1758	196	192.0856	8546
172	145.4572	3392	197	194.0634	1871
173	147.3464	9929	198	196.0418	7651
174	149.2420	9428	199	198.0208	1746
175	151.1437	9791	200	200.0000	0000

$$e = 14^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	1.2243	4113
1	0.0241	2337	26	1.3256	8183
2	0.0484	8752	27	1.4331	1055
3	0.0733	3318	28	1.5468	4752
4	0.0989	0096	29	1.6671	1140
5	0.1254	3126	30	1.7941	1927
6	0.1531	6430	31	1.9280	8652
7	0.1823	3996	32	2.0692	2682
8	0.2131	9777	33	2.2177	5210
9	0.2459	7685	34	2.3738	7243
10	0.2809	1587	35	2.5377	9604
11	0.3182	5292	36	2.7097	2921
12	0.3582	2553	37	2.8898	7626
13	0.4010	7057	38	3.0784	3947
14	0.4470	2422	39	3.2756	1905
15	0.4963	2185	40	3.4816	1309
16	0.5491	9806	41	3.6966	1750
17	0.6058	8651	42	3.9208	2596
18	0.6666	1997	43	4.1544	2988
19	0.7316	3018	44	4.3976	1836
20	0.8011	4784	45	4.6505	7815
21	0.8754	0253	46	4.9134	9354
22	0.9546	2266	47	5.1865	4642
23	1.0390	3542	48	5.4699	1614
24	1.1288	6672	49	5.7637	7953
25	1.2243	4113	50	6.0683	1080

$$e = 14^c$$

θ	mean anomaly		θ	mean anomaly	
50	6.0683	1080	75	17.6004	8191
51	6.3836	8156	76	18.2341	1133
52	6.7100	6073	77	18.8819	9361
53	7.0476	1452	78	19.5442	1565
54	7.3965	0637	79	20.2208	6077
55	7.7568	9693	80	20.9120	0877
56	8.1289	4402	81	21.6177	3585
57	8.5128	0258	82	22.3381	1461
58	8.9086	2463	83	23.0732	1405
59	9.3165	5924	84	23.8230	9952
60	9.7367	5250	85	24.5878	3275
61	10.1693	4746	86	25.3674	7177
62	10.6144	8412	87	26.1620	7097
63	11.0722	9939	88	26.9716	8101
64	11.5429	2705	89	27.7963	4887
65	12.0264	9770	90	28.6361	1783
66	12.5231	3877	91	29.4910	2740
67	13.0329	7446	92	30.3611	1339
68	13.5561	2570	93	31.2464	0785
69	14.0927	1015	94	32.1469	3909
70	14.6428	4216	95	33.0627	3164
71	15.2066	3272	96	33.9938	0629
72	15.7841	8945	97	34.9401	8004
73	16.3756	1660	98	35.9018	6612
74	16.9810	1496	99	36.8788	7399
75	17.6004	8191	100	37.8712	0932

$$e = 14^c$$

θ	mean anomaly		θ	mean anomaly	
100	37.8712	0932	125	67.6004	8191
101	38.8788	7399	126	68.9810	1496
102	39.9018	6612	127	70.3756	1660
103	40.9401	8004	128	71.7841	8945
104	41.9938	0629	129	73.2066	3272
105	43.0627	3164	130	74.6428	4216
106	44.1469	3909	131	76.0927	1015
107	45.2464	0785	132	77.5561	2570
108	46.3611	1339	133	79.0329	7446
109	47.4910	2740	134	80.5231	3877
110	48.6361	1783	135	82.0264	9770
111	49.7963	4887	136	83.5429	2705
112	50.9716	8101	137	85.0722	9939
113	52.1620	7097	138	86.6144	8412
114	53.3674	7177	139	88.1693	4746
115	54.5878	3275	140	89.7367	5250
116	55.8230	9952	141	91.3165	5924
117	57.0732	1405	142	92.9086	2463
118	58.3381	1461	143	94.5128	0258
119	59.6177	3585	144	96.1289	4402
120	60.9120	0877	145	97.7568	9693
121	62.2208	6077	146	99.3965	0637
122	63.5442	1565	147	101.0476	1452
123	64.8819	9361	148	102.7100	6073
124	66.2341	1133	149	104.3836	8156
125	67.6004	8191	150	106.0683	1080

$$e = 14^c$$

θ	mean anomaly		θ	mean anomaly	
150	106.0683	1080	175	151.2243	4113
151	107.7637	7953	176	153.1288	6672
152	109.4699	1614	177	155.0390	3542
153	111.1865	4642	178	156.9546	2266
154	112.9134	9354	179	158.8754	0253
155	114.6505	7815	180	160.8011	4784
156	116.3976	1836	181	162.7316	3018
157	118.1544	2988	182	164.6666	1997
158	119.9208	2596	183	166.6058	8651
159	121.6966	1750	184	168.5491	9806
160	123.4816	1309	185	170.4963	2185
161	125.2756	1905	186	172.4470	2422
162	127.0784	3947	187	174.4010	7057
163	128.8898	7626	188	176.3582	2553
164	130.7097	2921	189	178.3182	5292
165	132.5377	9604	190	180.2809	1587
166	134.3738	7243	191	182.2459	7685
167	136.2177	5210	192	184.2131	9777
168	138.0692	2682	193	186.1823	3996
169	139.9280	8652	194	188.1531	6430
170	141.7941	1927	195	190.1254	3126
171	143.6671	1140	196	192.0989	0096
172	145.5468	4752	197	194.0733	3318
173	147.4331	1055	198	196.0484	8752
174	149.3256	8183	199	198.0241	2337
175	151.2243	4113	200	200.0000	0000

$$e = 15^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	1.3107	5065
1	0.0276	7007	26	1.4153	5741
2	0.0555	8004	27	1.5260	3006
3	0.0839	6977	28	1.6429	8803
4	0.1130	7899	29	1.7664	4920
5	0.1431	4725	30	1.8966	2985
6	0.1744	1386	31	2.0337	4457
7	0.2071	1785	32	2.1780	0629
8	0.2414	9788	33	2.3296	2614
9	0.2777	9220	34	2.4888	1345
10	0.3162	3860	35	2.6557	7567
11	0.3570	7433	36	2.8307	1834
12	0.4005	3603	37	3.0138	4503
13	0.4468	5973	38	3.2053	5730
14	0.4962	8073	39	3.4054	5463
15	0.5490	3357	40	3.6143	3438
16	0.6053	5197	41	3.8321	9175
17	0.6654	6877	42	4.0592	1972
18	0.7296	1587	43	4.2956	0901
19	0.7980	2418	44	4.5415	4803
20	0.8709	2355	45	4.7972	2283
21	0.9485	4274	46	5.0628	1706
22	1.0311	0932	47	5.3385	1194
23	1.1188	4967	48	5.6244	8616
24	1.2119	8886	49	5.9209	1590
25	1.3107	5065	50	6.2279	7477

$$e = 15^c$$

θ	mean anomaly		θ	mean anomaly	
50	6.2279	7477	75	17.8090	9293
51	6.5458	3372	76	18.4440	5388
52	6.8746	6108	77	19.0932	1589
53	7.2146	2244	78	19.7566	6553
54	7.5658	8065	79	20.4344	8585
55	7.9285	9579	80	21.1267	5633
56	8.3029	2510	81	21.8335	5290
57	8.6890	2294	82	22.5549	4791
58	9.0870	4080	83	23.2910	1009
59	9.4971	2719	84	24.0418	0458
60	9.9194	2768	85	24.8073	9285
61	10.3540	8480	86	25.5878	3275
62	10.8012	3804	87	26.3831	7844
63	11.2610	2381	88	27.1934	8043
64	11.7335	7540	89	28.0187	8552
65	12.2190	2295	90	28.8591	3681
66	12.7174	9341	91	29.7145	7370
67	13.2291	1054	92	30.5851	3184
68	13.7539	9483	93	31.4708	4319
69	14.2922	6350	94	32.3717	3593
70	14.8440	3049	95	33.2878	3453
71	15.4094	0640	96	34.2191	5968
72	15.9884	9845	97	35.1657	2832
73	16.5814	1050	98	36.1275	5365
74	17.1882	4299	99	37.1046	4508
75	17.8090	9293	100	38.0970	0826

$$e = 15^c$$

θ	mean anomaly		θ	mean anomaly	
100	38.0970	0826	125	67.8090	9293
101	39.1046	4508	126	69.1882	4299
102	40.1275	5365	127	70.5814	1050
103	41.1657	2832	128	71.9884	9845
104	42.2191	5968	129	73.4094	0640
105	43.2878	3453	130	74.8440	3049
106	44.3717	3593	131	76.2922	6350
107	45.4708	4319	132	77.7539	9483
108	46.5851	3184	133	79.2291	1054
109	47.7145	7370	134	80.7174	9341
110	48.8591	3681	135	82.2190	2295
111	50.0187	8552	136	83.7335	7540
112	51.1934	8043	137	85.2610	2381
113	52.3831	7844	138	86.8012	3804
114	53.5878	3275	139	88.3540	8480
115	54.8073	9285	140	89.9194	2768
116	56.0418	0458	141	91.4971	2719
117	57.2910	1009	142	93.0870	4080
118	58.5549	4791	143	94.6890	2294
119	59.8335	5290	144	96.3029	2510
120	61.1267	5633	145	97.9285	9579
121	62.4344	8585	146	99.5658	8065
122	63.7566	6553	147	101.2146	2244
123	65.0932	1589	148	102.8746	6108
124	66.4440	5388	149	104.5458	3372
125	67.8090	9293	150	106.2279	7477

$$e = 15^c$$

θ	mean anomaly		θ	mean anomaly	
150	106.2279	7477	175	151.3107	5065
151	107.9209	1590	176	153.2119	8886
152	109.6244	8616	177	155.1188	4967
153	111.3385	1194	178	157.0311	0932
154	113.0628	1706	179	158.9485	4274
155	114.7972	2283	180	160.8709	2355
156	116.5415	4803	181	162.7980	2418
157	118.2956	0901	182	164.7296	1587
158	120.0592	1972	183	166.6654	6877
159	121.8321	9175	184	168.6053	5197
160	123.6143	3438	185	170.5490	3357
161	125.4054	5463	186	172.4962	8073
162	127.2053	5730	187	174.4468	5973
163	129.0138	4503	188	176.4005	3603
164	130.8307	1834	189	178.3570	7433
165	132.6557	7567	190	180.3162	3860
166	134.4888	1345	191	182.2777	9220
167	136.3296	2614	192	184.2414	9788
168	138.1780	0629	193	186.2071	1785
169	140.0337	4457	194	188.1744	1386
170	141.8966	2985	195	190.1431	4725
171	143.7664	4920	196	192.1130	7899
172	145.6429	8803	197	194.0839	6977
173	147.5260	3006	198	196.0555	8004
174	149.4153	5741	199	198.0276	7007
175	151.3107	5065	200	200.0000	0000

$$e = 16^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	1.4030	0513
1	0.0314	5667	26	1.5110	9887
2	0.0631	5231	27	1.6252	3489
3	0.0953	2584	28	1.7456	3175
4	0.1282	1606	29	1.8725	0647
5	0.1620	6158	30	2.0060	7451
6	0.1971	0079	31	2.1465	4962
7	0.2335	7178	32	2.2941	4389
8	0.2717	1228	33	2.4490	6764
9	0.3117	5963	34	2.6115	2938
10	0.3539	5066	35	2.7817	3574
11	0.3985	2172	36	2.9598	9149
12	0.4457	0853	37	3.1461	9938
13	0.4957	4619	38	3.3408	6020
14	0.5488	6908	39	3.5440	7263
15	0.6053	1085	40	3.7560	3329
16	0.6653	0428	41	3.9769	3661
17	0.7290	8133	42	4.2069	7481
18	0.7968	7297	43	4.4463	3787
19	0.8689	0924	44	4.6952	1348
20	0.9454	1908	45	4.9537	8695
21	1.0266	3035	46	5.2222	4122
22	1.1127	6975	47	5.5007	5680
23	1.2040	6276	48	5.7895	1170
24	1.3007	3359	49	6.0886	8140
25	1.4030	0513	50	6.3984	3882

$$e = 16^c$$

θ	mean anomaly		θ	mean anomaly	
50	6.3984	3882	75	18.0318	1496
51	6.7189	5428	76	18.6681	9749
52	7.0503	9543	77	19.3187	2580
53	7.3929	2722	78	19.9834	8609
54	7.7467	1187	79	20.6625	6109
55	8.1119	0882	80	21.3560	2998
56	8.4886	7472	81	22.0639	6839
57	8.8771	6332	82	22.7864	4839
58	9.2775	2551	83	23.5235	3844
59	9.6899	0924	84	24.2753	0342
60	10.1144	5950	85	25.0418	0458
61	10.5513	1827	86	25.8230	9952
62	11.0006	2449	87	26.6192	4222
63	11.4625	1405	88	27.4302	8296
64	11.9371	1972	89	28.2562	6837
65	12.4245	7112	90	29.0972	4139
66	12.9249	9472	91	29.9532	4126
67	13.4385	1378	92	30.8243	0349
68	13.9652	4834	93	31.7104	5992
69	14.5053	1516	94	32.6117	3862
70	15.0588	2774	95	33.5281	6396
71	15.6258	9622	96	34.4597	5656
72	16.2066	2744	97	35.4065	3328
73	16.8011	2484	98	36.3685	0728
74	17.4094	8847	99	37.3456	8792
75	18.0318	1496	100	38.3380	8084

$$e = 16^c$$

θ	mean anomaly		θ	mean anomaly	
100	38.3380	8084	125	68.0318	1496
101	39.3456	8792	126	69.4094	8847
102	40.3685	0728	127	70.8011	2484
103	41.4065	3328	128	72.2066	2744
104	42.4597	5656	129	73.6258	9622
105	43.5281	6396	130	75.0588	2774
106	44.6117	3862	131	76.5053	1516
107	45.7104	5992	132	77.9652	4834
108	46.8243	0349	133	79.4385	1378
109	47.9532	4126	134	80.9249	9472
110	49.0972	4139	135	82.4245	7112
111	50.2562	6837	136	83.9371	1972
112	51.4302	8296	137	85.4625	1405
113	52.6192	4222	138	87.0006	2449
114	53.8230	9952	139	88.5513	1827
115	55.0418	0458	140	90.1144	5950
116	56.2753	0342	141	91.6899	0924
117	57.5235	3844	142	93.2775	2551
118	58.7864	4839	143	94.8771	6332
119	60.0639	6839	144	96.4886	7472
120	61.3560	2998	145	98.1119	0882
121	62.6625	6109	146	99.7467	1187
122	63.9834	8609	147	101.3929	2722
123	65.3187	2580	148	103.0503	9543
124	66.6681	9749	149	104.7189	5428
125	68.0318	1496	150	106.3984	3882

$$e = 16^c$$

θ	mean anomaly		θ	mean anomaly	
150	106.3984	3882	175	151.4030	0513
151	108.0886	8140	176	153.3007	3359
152	109.7895	1170	177	155.2040	6276
153	111.5007	5680	178	157.1127	6975
154	113.2222	4122	179	159.0266	3035
155	114.9537	8695	180	160.9454	1908
156	116.6952	1348	181	162.8689	0924
157	118.4463	3787	182	164.7968	7297
158	120.2069	7481	183	166.7290	8133
159	121.9769	3661	184	168.6653	0428
160	123.7560	3329	185	170.6053	1085
161	125.5440	7263	186	172.5488	6908
162	127.3408	6020	187	174.4957	4619
163	129.1461	9938	188	176.4457	0853
164	130.9598	9149	189	178.3985	2172
165	132.7817	3574	190	180.3539	5066
166	134.6115	2938	191	182.3117	5963
167	136.4490	6764	192	184.2717	1228
168	138.2941	4389	193	186.2335	7178
169	140.1465	4962	194	188.1971	0079
170	142.0060	7451	195	190.1620	6158
171	143.8725	0647	196	192.1282	1606
172	145.7456	3175	197	194.0953	2584
173	147.6252	3489	198	196.0631	5231
174	149.5110	9887	199	198.0314	5667
175	151.4030	0513	200	200.0000	0000

$$e = 17^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	1.5010	8182
1	0.0354	8225	26	1.6128	8261
2	0.0712	0247	27	1.7307	0056
3	0.1073	9860	28	1.8547	5333
4	0.1443	0844	29	1.9852	5705
5	0.1821	6961	30	2.1224	2625
6	0.2212	1950	31	2.2664	7383
7	0.2616	9523	32	2.4176	1097
8	0.3038	3353	33	2.5760	4713
9	0.3478	7074	34	2.7419	8994
10	0.3940	4274	35	2.9156	4520
11	0.4425	8487	36	3.0972	1679
12	0.4937	3187	37	3.2869	0665
13	0.5477	1788	38	3.4849	1471
14	0.6047	7630	39	3.6914	3885
15	0.6651	3980	40	3.9066	7486
16	0.7290	4020	41	4.1308	1635
17	0.7967	0849	42	4.3640	5476
18	0.8683	7469	43	4.6065	7927
19	0.9442	6787	44	4.8585	7679
20	1.0246	1603	45	5.1202	3187
21	1.1096	4608	46	5.3917	2668
22	1.1995	8378	47	5.6732	4098
23	1.2946	5367	48	5.9649	5204
24	1.3950	7903	49	6.2670	3462
25	1.5010	8182	50	6.5796	6091

$$e = 17^c$$

θ	mean anomaly		θ	mean anomaly	
50	6.5796	6091	75	18.2685	9303
51	6.9030	0053	76	18.9064	8688
52	7.2372	2042	77	19.5584	6770
53	7.5824	8486	78	20.2246	2135
54	7.9389	5539	79	20.9050	3022
55	8.3067	9079	80	21.5997	7315
56	8.6861	4704	81	22.3089	2547
57	9.0771	7728	82	23.0325	5892
58	9.4800	3176	83	23.7707	4172
59	9.8948	5781	84	24.5235	3844
60	10.3217	9982	85	25.2910	1009
61	10.7609	9919	86	26.0732	1405
62	11.2125	9428	87	26.8702	0404
63	11.6767	2040	88	27.6820	3015
64	12.1535	0977	89	28.5087	3883
65	12.6430	9148	90	29.3503	7281
66	13.1455	9148	91	30.2069	7119
67	13.6611	3252	92	31.0785	6934
68	14.1898	3412	93	31.9651	9893
69	14.7318	1258	94	32.8668	8795
70	15.2871	8089	95	33.7836	6065
71	15.8560	4878	96	34.7155	3757
72	16.4385	2261	97	35.6625	3551
73	17.0347	0541	98	36.6246	6756
74	17.6446	9681	99	37.6019	4304
75	18.2685	9303	100	38.5943	6758

$$e = 17^c$$

θ	mean anomaly		θ	mean anomaly	
100	38.5943	6758	125	68.2685	9303
101	39.6019	4304	126	69.6446	9681
102	40.6246	6756	127	71.0347	0541
103	41.6625	3551	128	72.4385	2261
104	42.7155	3757	129	73.8560	4878
105	43.7836	6065	130	75.2871	8089
106	44.8668	8795	131	76.7318	1258
107	45.9651	9893	132	78.1898	3412
108	47.0785	6934	133	79.6611	3252
109	48.2069	7119	134	81.1455	9148
110	49.3503	7281	135	82.6430	9148
111	50.5087	3883	136	84.1535	0977
112	51.6820	3015	137	85.6767	2040
113	52.8702	0404	138	87.2125	9428
114	54.0732	1405	139	88.7609	9919
115	55.2910	1009	140	90.3217	9982
116	56.5235	3844	141	91.8948	5781
117	57.7707	4172	142	93.4800	3176
118	59.0325	5892	143	95.0771	7728
119	60.3089	2547	144	96.6861	4704
120	61.5997	7315	145	98.3067	9079
121	62.9050	3022	146	99.9389	5539
122	64.2246	2135	147	101.5824	8486
123	65.5584	6770	148	103.2372	2042
124	66.9064	8688	149	104.9030	0053
125	68.2685	9303	150	106.5796	6091

$$e = 17^c$$

θ	mean anomaly		θ	mean anomaly	
150	106.5796	6091	175	151.5010	8182
151	108.2670	3462	176	153.3950	7903
152	109.9649	5204	177	155.2946	5367
153	111.6732	4098	178	157.1995	8378
154	113.3917	2668	179	159.1096	4608
155	115.1202	3187	180	161.0246	1603
156	116.8585	7679	181	162.9442	6787
157	118.6065	7927	182	164.8683	7469
158	120.3640	5476	183	166.7967	0849
159	122.1308	1635	184	168.7290	4020
160	123.9066	7486	185	170.6651	3980
161	125.6914	3885	186	172.6047	7630
162	127.4849	1471	187	174.5477	1788
163	129.2869	0665	188	176.4937	3187
164	131.0972	1679	189	178.4425	8487
165	132.9156	4520	190	180.3940	4274
166	134.7419	8994	191	182.3478	7074
167	136.5760	4713	192	184.3038	3353
168	138.4176	1097	193	186.2616	9523
169	140.2664	7383	194	188.2212	1950
170	142.1224	2625	195	190.1821	6961
171	143.9852	5705	196	192.1443	0844
172	145.8547	5333	197	194.1073	9860
173	147.7307	0056	198	196.0712	0247
174	149.6128	8261	199	198.0354	8225
175	151.5010	8182	200	200.0000	0000

$$e = 18^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	1.6049	5652
1	0.0397	4580	26	1.7206	8351
2	0.0797	2854	27	1.8424	0106
3	0.1201	8507	28	1.9703	2587
4	0.1613	5215	29	2.1046	7311
5	0.2034	6636	30	2.2456	5637
6	0.2467	6405	31	2.3934	8760
7	0.2914	8125	32	2.5483	7706
8	0.3378	5369	33	2.7105	3327
9	0.3861	1665	34	2.8801	6295
10	0.4365	0495	35	3.0574	7098
11	0.4892	5290	36	3.2426	6036
12	0.5445	9422	37	3.4359	3212
13	0.6027	6199	38	3.6374	8531
14	0.6639	8860	39	3.8475	1693
15	0.7285	0566	40	4.0662	2191
16	0.7965	4400	41	4.2937	9301
17	0.8683	3357	42	4.5304	2081
18	0.9441	0339	43	4.7762	9368
19	1.0240	8149	44	5.0315	9767
20	1.1084	9488	45	5.2965	1653
21	1.1975	6947	46	5.5712	3163
22	1.2915	3001	47	5.8559	2192
23	1.3906	0006	48	6.1507	6391
24	1.4950	0190	49	6.4559	3156
25	1.6049	5652	50	6.7715	9632

$$e = 18^c$$

θ	mean anomaly		θ	mean anomaly	
50	6.7715	9632	75	18.5193	6873
51	7.0979	2705	76	19.1588	6323
52	7.4350	8996	77	19.8123	8243
53	7.7832	4859	78	20.4800	1183
54	8.1425	6378	79	21.1618	3342
55	8.5131	9360	80	21.8579	2571
56	8.8952	9335	81	22.5683	6368
57	9.2890	1548	82	23.2932	1879
58	9.6945	0958	83	24.0325	5892
59	10.1119	2234	84	24.7864	4839
60	10.5413	9750	85	25.5549	4791
61	10.9830	7583	86	26.3381	1461
62	11.4370	9509	87	27.1360	0198
63	11.9035	8999	88	27.9486	5991
64	12.3826	9216	89	28.7761	3460
65	12.8745	3013	90	29.6184	6863
66	13.3792	2928	91	30.4757	0089
67	13.8969	1182	92	31.3478	6663
68	14.4276	9675	93	32.2349	9737
69	14.9716	9985	94	33.1371	2096
70	15.5290	3362	95	34.0542	6156
71	16.0998	0729	96	34.9864	3961
72	16.6841	2675	97	35.9336	7184
73	17.2820	9458	98	36.8959	7128
74	17.8938	0997	99	37.8733	4722
75	18.5193	6873	100	38.8658	0524

$$e = 18^c$$

θ	mean anomaly		θ	mean anomaly	
100	38.8658	0524	125	68.5193	6873
101	39.8733	4722	126	69.8938	0997
102	40.8959	7128	127	71.2820	9458
103	41.9336	7184	128	72.6841	2675
104	42.9864	3961	129	74.0998	0729
105	44.0542	6156	130	75.5290	3362
106	45.1371	2096	131	76.9716	9985
107	46.2349	9737	132	78.4276	9675
108	47.3478	6663	133	79.8969	1182
109	48.4757	0089	134	81.3792	2928
110	49.6184	6863	135	82.8745	3013
111	50.7761	3460	136	84.3826	9216
112	51.9486	5991	137	85.9035	8999
113	53.1360	0198	138	87.4370	9509
114	54.3381	1461	139	88.9830	7583
115	55.5549	4791	140	90.5413	9750
116	56.7864	4839	141	92.1119	2234
117	58.0325	5892	142	93.6945	0958
118	59.2932	1879	143	95.2890	1548
119	60.5683	6368	144	96.8952	9335
120	61.8579	2571	145	98.5131	9360
121	63.1618	3342	146	100.1425	6378
122	64.4800	1183	147	101.7832	4859
123	65.8123	8243	148	103.4350	8996
124	67.1588	6323	149	105.0979	2705
125	68.5193	6873	150	106.7715	9632

$$e = 18^c$$

θ	mean anomaly		θ	mean anomaly	
150	106.7715	9632	175	151.6049	5652
151	108.4559	3156	176	153.4950	0190
152	110.1507	6391	177	155.3906	0006
153	111.8559	2192	178	157.2915	3001
154	113.5712	3163	179	159.1975	6947
155	115.2965	1653	180	161.1084	9488
156	117.0315	9767	181	163.0240	8149
157	118.7762	9368	182	164.9441	0339
158	120.5304	2081	183	166.8683	3357
159	122.2937	9301	184	168.7965	4400
160	124.0662	2191	185	170.7285	0566
161	125.8475	1693	186	172.6639	8860
162	127.6374	8531	187	174.6027	6199
163	129.4359	3212	188	176.5445	9422
164	131.2426	6036	189	178.4892	5290
165	133.0574	7098	190	180.4365	0495
166	134.8801	6295	191	182.3861	1665
167	136.7105	3327	192	184.3378	5369
168	138.5483	7706	193	186.2914	8125
169	140.3934	8760	194	188.2467	6405
170	142.2456	5637	195	190.2034	6636
171	144.1046	7311	196	192.1613	5215
172	145.9703	2587	197	194.1201	8507
173	147.8424	0106	198	196.0797	2854
174	149.7206	8351	199	198.0397	4580
175	151.6049	5652	200	200.0000	0000

$$e = 19^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	1.7146	0359
1	0.0442	4629	26	1.8344	7496
2	0.0887	2840	27	1.9603	0881
3	0.1336	8208	28	2.0923	2083
4	0.1793	4299	29	2.2307	2519
5	0.2259	4659	30	2.3757	3446
6	0.2737	2811	31	2.5275	5960
7	0.3229	2251	32	2.6864	0990
8	0.3737	6437	33	2.8524	9288
9	0.4264	8789	34	3.0260	1431
10	0.4813	2680	35	3.2071	7811
11	0.5385	1430	36	3.3961	8631
12	0.5982	8302	37	3.5932	3902
13	0.6608	6493	38	3.7985	3434
14	0.7264	9135	39	4.0122	6836
15	0.7953	9280	40	4.2346	3509
16	0.8677	9903	41	4.4658	2638
17	0.9439	3890	42	4.7060	3193
18	1.0240	4037	43	4.9554	3921
19	1.1083	3040	44	5.2142	3341
20	1.1970	3493	45	5.4825	9743
21	1.2903	7881	46	5.7607	1177
22	1.3885	8575	47	6.0487	5455
23	1.4918	7824	48	6.3469	0144
24	1.6004	7754	49	6.6553	2561
25	1.7146	0359	50	6.9741	9770

$$e = 19^c$$

θ	mean anomaly		θ	mean anomaly	
50	6.9741	9770	75	18.7840	8017
51	7.3036	8575	76	19.4252	6428
52	7.6439	5522	77	20.0804	0736
53	7.9951	6888	78	20.7495	9450
54	8.3574	8681	79	21.4329	0731
55	8.7310	6634	80	22.1304	2395
56	9.1160	6204	81	22.8422	1904
57	9.5126	2566	82	23.5683	6368
58	9.9209	0607	83	24.3089	2547
59	10.3410	4928	84	25.0639	6839
60	10.7731	9835	85	25.8335	5290
61	11.2174	9341	86	26.6177	3585
62	11.6740	7155	87	27.4165	7048
63	12.1430	6686	88	28.2301	0643
64	12.6246	1036	89	29.0583	8970
65	13.1188	2996	90	29.9014	6268
66	13.6258	5047	91	30.7593	6406
67	14.1457	9352	92	31.6321	2893
68	14.6787	7755	93	32.5197	8866
69	15.2249	1780	94	33.4223	7098
70	15.7843	2624	95	34.3398	9992
71	16.3571	1159	96	35.2723	9583
72	16.9433	7925	97	36.2198	7537
73	17.5432	3131	98	37.1823	5150
74	18.1567	6650	99	38.1598	3348
75	18.7840	8017	100	39.1523	2685

$$e = 19^c$$

θ	mean anomaly		θ	mean anomaly	
100	39.1523	2685	125	68.7840	8017
101	40.1598	3348	126	70.1567	6650
102	41.1823	5150	127	71.5432	3131
103	42.2198	7537	128	72.9433	7925
104	43.2723	9583	129	74.3571	1159
105	44.3398	9992	130	75.7843	2624
106	45.4223	7098	131	77.2249	1780
107	46.5197	8866	132	78.6787	7755
108	47.6321	2893	133	80.1457	9352
109	48.7593	6406	134	81.6258	5047
110	49.9014	6268	135	83.1188	2996
111	51.0583	8970	136	84.6246	1036
112	52.2301	0643	137	86.1430	6686
113	53.4165	7048	138	87.6740	7155
114	54.6177	3585	139	89.2174	9341
115	55.8335	5290	140	90.7731	9835
116	57.0639	6839	141	92.3410	4928
117	58.3089	2547	142	93.9209	0607
118	59.5683	6368	143	95.5126	2566
119	60.8422	1904	144	97.1160	6204
120	62.1304	2395	145	98.7310	6634
121	63.4329	0731	146	100.3574	8681
122	64.7495	9450	147	101.9951	6888
123	66.0804	0736	148	103.6439	5522
124	67.4252	6428	149	105.3036	8575
125	68.7840	8017	150	106.9741	9770

$$e = 19^c$$

θ	mean anomaly		θ	mean anomaly	
150	106.9741	9770	175	151.7146	0359
151	108.6553	2561	176	153.6004	7754
152	110.3469	0144	177	155.4918	7824
153	112.0487	5455	178	157.3885	8575
154	113.7607	1177	179	159.2903	7881
155	115.4825	9743	180	161.1970	3493
156	117.2142	3341	181	163.1083	3040
157	118.9554	3921	182	165.0240	4037
158	120.7060	3193	183	166.9439	3890
159	122.4658	2638	184	168.8677	9903
160	124.2346	3509	185	170.7953	9280
161	126.0122	6836	186	172.7264	9135
162	127.7985	3434	187	174.6608	6493
163	129.5932	3902	188	176.5982	8302
164	131.3961	8631	189	178.5385	1430
165	133.2071	7811	190	180.4813	2680
166	135.0260	1431	191	182.4264	8789
167	136.8524	9288	192	184.3737	6437
168	138.6864	0990	193	186.3229	2251
169	140.5275	5960	194	188.2737	2811
170	142.3757	3446	195	190.2259	4659
171	144.2307	2519	196	192.1793	4299
172	146.0923	2083	197	194.1336	8208
173	147.9603	0881	198	196.0887	2840
174	149.8344	7496	199	198.0442	4629
175	151.7146	0359	200	200.0000	0000

$$e = 20^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	1.8299	9598
1	0.0489	8259	26	1.9542	2889
2	0.0981	9984	27	2.0843	9474
3	0.1478	8632	28	2.2207	0813
4	0.1982	7652	29	2.3633	8218
5	0.2496	0474	30	2.5126	2842
6	0.3021	0505	31	2.6686	5676
7	0.3560	1123	32	2.8316	7543
8	0.4115	5671	33	3.0018	9094
9	0.4689	7453	34	3.1795	0805
10	0.5284	9725	35	3.3647	2964
11	0.5903	5692	36	3.5577	5677
12	0.6547	8501	37	3.7587	8854
13	0.7220	1237	38	3.9680	2207
14	0.7922	6914	39	4.1856	5249
15	0.8657	8472	40	4.4118	7283
16	0.9427	8770	41	4.6468	7400
17	1.0235	0583	42	4.8908	4477
18	1.1081	6591	43	5.1439	7166
19	1.1969	9381	44	5.4064	3897
20	1.2902	1432	45	5.6784	2865
21	1.3880	5120	46	5.9601	2035
22	1.4907	2704	47	6.2516	9129
23	1.5984	6323	48	6.5533	1626
24	1.7114	7992	49	6.8651	6758
25	1.8299	9598	50	7.1874	1504

$$e = 20^c$$

θ	mean anomaly		θ	mean anomaly	
50	7.1874	1504	75	19.0626	6206
51	7.5202	2587	76	19.7056	2431
52	7.8637	6467	77	20.3624	7635
53	8.2181	9344	78	21.0333	0285
54	8.5836	7144	79	21.7181	8503
55	8.9603	5525	80	22.4172	0064
56	9.3483	9865	81	23.1304	2395
57	9.7479	5263	82	23.8579	2571
58	10.1591	6535	83	24.5997	7315
59	10.5821	8208	84	25.3560	2998
60	11.0171	4518	85	26.1267	5633
61	11.4641	9407	86	26.9120	0877
62	11.9234	6517	87	27.7118	4029
63	12.3950	9191	88	28.5263	0028
64	12.8792	0466	89	29.3554	3451
65	13.3759	3070	90	30.1992	8514
66	13.8853	9420	91	31.0578	9071
67	14.4077	1620	92	31.9312	8609
68	14.9430	1456	93	32.8195	0253
69	15.4914	0394	94	33.7225	6761
70	16.0529	9577	95	34.6405	0525
71	16.6278	9821	96	35.5733	3568
72	17.2162	1615	97	36.5210	7549
73	17.8180	5117	98	37.4837	3757
74	18.4335	0152	99	38.4613	3114
75	19.0626	6206	100	39.4538	6171

$$e = 20^c$$

θ	mean anomaly		θ	mean anomaly	
100	39.4538	6171	125	69.0626	6206
101	40.4613	3114	126	70.4335	0152
102	41.4837	3757	127	71.8180	5117
103	42.5210	7549	128	73.2162	1615
104	43.5733	3568	129	74.6278	9821
105	44.6405	0525	130	76.0529	9577
106	45.7225	6761	131	77.4914	0394
107	46.8195	0253	132	78.9430	1456
108	47.9312	8609	133	80.4077	1620
109	49.0578	9071	134	81.8853	9420
110	50.1992	8514	135	83.3759	3070
111	51.3554	3451	136	84.8792	0466
112	52.5263	0028	137	86.3950	9191
113	53.7118	4029	138	87.9234	6517
114	54.9120	0877	139	89.4641	9407
115	56.1267	5633	140	91.0171	4518
116	57.3560	2998	141	92.5821	8208
117	58.5997	7315	142	94.1591	6535
118	59.8579	2571	143	95.7479	5263
119	61.1304	2395	144	97.3483	9865
120	62.4172	0064	145	98.9603	5525
121	63.7181	8503	146	100.5836	7144
122	65.0333	0285	147	102.2181	9344
123	66.3624	7635	148	103.8637	6467
124	67.7056	2431	149	105.5202	2587
125	69.0626	6206	150	107.1874	1504

$$e = 20^c$$

θ	mean anomaly		θ	mean anomaly	
150	107.1874	1504	175	151.8299	9598
151	108.8651	6758	176	153.7114	7992
152	110.5533	1626	177	155.5984	6323
153	112.2516	9129	178	157.4907	2704
154	113.9601	2035	179	159.3880	5120
155	115.6784	2865	180	161.2902	1432
156	117.4064	3897	181	163.1969	9381
157	119.1439	7166	182	165.1081	6591
158	120.8908	4477	183	167.0235	0583
159	122.6468	7400	184	168.9427	8770
160	124.4118	7283	185	170.8657	8472
161	126.1856	5249	186	172.7922	6914
162	127.9680	2207	187	174.7220	1237
163	129.7587	8854	188	176.6547	8501
164	131.5577	5677	189	178.5903	5692
165	133.3647	2964	190	180.5284	9725
166	135.1795	0805	191	182.4689	7453
167	137.0018	9094	192	184.4115	5671
168	138.8316	7543	193	186.3560	1123
169	140.6686	5676	194	188.3021	0505
170	142.5126	2842	195	190.2496	0474
171	144.3633	8218	196	192.1982	7652
172	146.2207	0813	197	194.1478	8632
173	148.0843	9474	198	196.0981	9984
174	149.9542	2889	199	198.0489	8259
175	151.8299	9598	200	200.0000	0000

$$e = 21^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	1.9511	0523
1	0.0539	5355	26	2.0799	1576
2	0.1081	4052	27	2.2146	2821
3	0.1627	9427	28	2.3554	5608
4	0.2181	4807	29	2.5026	1136
5	0.2744	3498	30	2.6563	0448
6	0.3318	8785	31	2.8167	4424
7	0.3907	3925	32	2.9841	3780
8	0.4512	2138	33	3.1586	9059
9	0.5135	6606	34	3.3406	0627
10	0.5780	0464	35	3.5300	8670
11	0.6447	6796	36	3.7273	3187
12	0.7140	8627	37	3.9325	3983
13	0.7861	8922	38	4.1459	0669
14	0.8613	0574	39	4.3676	2654
15	0.9396	6404	40	4.5978	9141
16	1.0214	9151	41	4.8368	9122
17	1.1070	1471	42	5.0848	1374
18	1.1964	5926	43	5.3418	4453
19	1.2900	4984	44	5.6081	6690
20	1.3880	1008	45	5.8839	6189
21	1.4905	6255	46	6.1694	0817
22	1.5979	2868	47	6.4646	8205
23	1.7103	2872	48	6.7699	5742
24	1.8279	8167	49	7.0854	0569
25	1.9511	0523	50	7.4111	9575

$$e = 21^c$$

θ	mean anomaly		θ	mean anomaly	
50	7.4111	9575	75	19.3550	4565
51	7.7474	9396	76	19.9998	7412
52	8.0944	6408	77	20.6585	1979
53	8.4522	6724	78	21.3310	6688
54	8.8210	6188	79	22.0175	9618
55	9.2010	0375	80	22.7181	8503
56	9.5922	4583	81	23.4329	0731
57	9.9949	3834	82	24.1618	3342
58	10.4092	2864	83	24.9050	3022
59	10.8352	6125	84	25.6625	6109
60	11.2731	7779	85	26.4344	8585
61	11.7231	1695	86	27.2208	6077
62	12.1852	1443	87	28.0217	3857
63	12.6596	0297	88	28.8371	6837
64	13.1464	1225	89	29.6671	9571
65	13.6457	6890	90	30.5118	6254
66	14.1577	9643	91	31.3712	0717
67	14.6826	1524	92	32.2452	6432
68	15.2203	4259	93	33.1340	6505
69	15.7710	9253	94	34.0376	3681
70	16.3349	7591	95	34.9560	0338
71	16.9121	0033	96	35.8891	8491
72	17.5025	7013	97	36.8371	9788
73	18.1064	8635	98	37.8000	5513
74	18.7239	4673	99	38.7777	6581
75	19.3550	4565	100	39.7703	3542

$$e = 21^c$$

θ	mean anomaly		θ	mean anomaly	
100	39.7703	3542	125	69.3550	4565
101	40.7777	6581	126	70.7239	4673
102	41.8000	5513	127	72.1064	8635
103	42.8371	9788	128	73.5025	7013
104	43.8891	8491	129	74.9121	0033
105	44.9560	0338	130	76.3349	7591
106	46.0376	3681	131	77.7710	9253
107	47.1340	6505	132	79.2203	4259
108	48.2452	6432	133	80.6826	1524
109	49.3712	0717	134	82.1577	9643
110	50.5118	6254	135	83.6457	6890
111	51.6671	9571	136	85.1464	1225
112	52.8371	6837	137	86.6596	0297
113	54.0217	3857	138	88.1852	1443
114	55.2208	6077	139	89.7231	1695
115	56.4344	8585	140	91.2731	7779
116	57.6625	6109	141	92.8352	6125
117	58.9050	3022	142	94.4092	2864
118	60.1618	3342	143	95.9949	3834
119	61.4329	0731	144	97.5922	4583
120	62.7181	8503	145	99.2010	0375
121	64.0175	9618	146	100.8210	6188
122	65.3310	6688	147	102.4522	6724
123	66.6585	1979	148	104.0944	6408
124	67.9998	7412	149	105.7474	9396
125	69.3550	4565	150	107.4111	9575

$$e = 21^c$$

θ	mean anomaly		θ	mean anomaly	
150	107.4111	9575	175	151.9511	0523
151	109.0854	0569	176	153.8279	8167
152	110.7699	5742	177	155.7103	2872
153	112.4646	8205	178	157.5979	2868
154	114.1694	0817	179	159.4905	6255
155	115.8839	6189	180	161.3880	1008
156	117.6081	6690	181	163.2900	4984
157	119.3418	4453	182	165.1964	5926
158	121.0848	1374	183	167.1070	1471
159	122.8368	9122	184	169.0214	9151
160	124.5978	9141	185	170.9396	6404
161	126.3676	2654	186	172.8613	0574
162	128.1459	0669	187	174.7861	8922
163	129.9325	3983	188	176.7140	8627
164	131.7273	3187	189	178.6447	6796
165	133.5300	8670	190	180.5780	0464
166	135.3406	0627	191	182.5135	6606
167	137.1586	9059	192	184.4512	2138
168	138.9841	3780	193	186.3907	3925
169	140.8167	4424	194	188.3318	8785
170	142.6563	0448	195	190.2744	3498
171	144.5026	1136	196	192.2181	4807
172	146.3554	5608	197	194.1627	9427
173	148.2146	2821	198	196.1081	4052
174	150.0799	1576	199	198.0539	5355
175	151.9511	0523	200	200.0000	0000

$$e = 22^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	2.0779	0145
1	0.0591	5792	26	2.2115	0455
2	0.1185	4798	27	2.3509	7711
3	0.1784	0227	28	2.4965	3145
4	0.2389	5273	29	2.6483	7838
5	0.3004	3119	30	2.8067	2719
6	0.3630	6918	31	2.9717	8552
7	0.4270	9801	32	3.1437	5940
8	0.4927	4860	33	3.3228	5313
9	0.5602	5150	34	3.5092	6925
10	0.6298	3677	35	3.7032	0850
11	0.7017	3400	36	3.9048	6976
12	0.7761	7217	37	4.1144	5002
13	0.8533	7964	38	4.3321	4429
14	0.9335	8412	39	4.5581	4561
15	1.0170	1254	40	4.7926	4493
16	1.1038	9105	41	5.0358	3115
17	1.1944	4495	42	5.2878	9098
18	1.2888	9864	43	5.5490	0898
19	1.3874	7554	44	5.8193	6745
20	1.4903	9807	45	6.0991	4642
21	1.5978	8756	46	6.3885	2359
22	1.7101	6424	47	6.6876	7431
23	1.8274	4713	48	6.9967	7148
24	1.9499	5403	49	7.3159	8559
25	2.0779	0145	50	7.6454	8461

$$e = 22^c$$

θ	mean anomaly		θ	mean anomaly	
50	7.6454	8461	75	19.6611	5879
51	7.9854	3397	76	20.3079	4113
52	8.3359	9653	77	20.9684	6466
53	8.6973	3252	78	21.6428	1312
54	9.0695	9954	79	22.3310	6688
55	9.4529	5247	80	23.0333	0285
56	9.8475	4344	81	23.7495	9450
57	10.2535	2184	82	24.4800	1183
58	10.6710	3424	83	25.2246	2135
59	11.1002	2435	84	25.9834	8609
60	11.5412	3302	85	26.7566	6553
61	11.9941	9816	86	27.5442	1565
62	12.4592	5475	87	28.3461	8885
63	12.9365	3477	88	29.1626	3401
64	13.4261	6721	89	29.9935	9640
65	13.9282	7798	90	30.8391	1774
66	14.4429	8994	91	31.6992	3615
67	14.9704	2282	92	32.5739	8613
68	15.5106	9321	93	33.4633	9859
69	16.0639	1456	94	34.3675	0081
70	16.6301	9710	95	35.2863	1647
71	17.2096	4783	96	36.2198	6558
72	17.8023	7053	97	37.1681	6454
73	18.4084	6569	98	38.1312	2611
74	19.0280	3048	99	39.1090	5941
75	19.6611	5879	100	40.1016	6990

$$e = 22^c$$

θ	mean anomaly		θ	mean anomaly	
100	40.1016	6990	125	69.6611	5879
101	41.1090	5941	126	71.0280	3048
102	42.1312	2611	127	72.4084	6569
103	43.1681	6454	128	73.8023	7053
104	44.2198	6558	129	75.2096	4783
105	45.2863	1647	130	76.6301	9710
106	46.3675	0081	131	78.0639	1456
107	47.4633	9859	132	79.5106	9321
108	48.5739	8613	133	80.9704	2282
109	49.6992	3615	134	82.4429	8994
110	50.8391	1774	135	83.9282	7798
111	51.9935	9640	136	85.4261	6721
112	53.1626	3401	137	86.9365	3477
113	54.3461	8885	138	88.4592	5475
114	55.5442	1565	139	89.9941	9816
115	56.7566	6553	140	91.5412	3302
116	57.9834	8609	141	93.1002	2435
117	59.2246	2135	142	94.6710	3424
118	60.4800	1183	143	96.2535	2184
119	61.7495	9450	144	97.8475	4344
120	63.0333	0285	145	99.4529	5247
121	64.3310	6688	146	101.0695	9954
122	65.6428	1312	147	102.6973	3252
123	66.9684	6466	148	104.3359	9653
124	68.3079	4113	149	105.9854	3397
125	69.6611	5879	150	107.6454	8461

$$e = 22^c$$

θ	mean anomaly		θ	mean anomaly	
150	107.6454	8461	175	152.0779	0145
151	109.3159	8559	176	153.9499	5403
152	110.9967	7148	177	155.8274	4713
153	112.6876	7431	178	157.7101	6424
154	114.3885	2359	179	159.5978	8756
155	116.0991	4642	180	161.4903	9807
156	117.8193	6745	181	163.3874	7554
157	119.5490	0898	182	165.2888	9864
158	121.2878	9098	183	167.1944	4495
159	123.0358	3115	184	169.1038	9105
160	124.7926	4493	185	171.0170	1254
161	126.5581	4561	186	172.9335	8412
162	128.3321	4429	187	174.8533	7964
163	130.1144	5002	188	176.7761	7217
164	131.9048	6976	189	178.7017	3400
165	133.7032	0850	190	180.6298	3677
166	135.5092	6925	191	182.5602	5150
167	137.3228	5313	192	184.4927	4860
168	139.1437	5940	193	186.4270	9801
169	140.9717	8552	194	188.3630	6918
170	142.8067	2719	195	190.3004	3119
171	144.6483	7838	196	192.2389	5273
172	146.4965	3145	197	194.1784	0227
173	148.3509	7711	198	196.1185	4798
174	150.2115	0455	199	198.0591	5792
175	152.0779	0145	200	200.0000	0000

$$e = 23^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	2.2103	5335
1	0.0645	9444	26	2.3489	6280
2	0.1294	1967	27	2.4934	0778
3	0.1947	0644	28	2.6438	9941
4	0.2606	8538	29	2.8006	4727
5	0.3275	8694	30	2.9638	5943
6	0.3956	4134	31	3.1337	4235
7	0.4650	7854	32	3.3105	0085
8	0.5361	2813	33	3.4943	3806
9	0.6090	1932	34	3.6854	5535
10	0.6839	8085	35	3.8840	5230
11	0.7612	4098	36	4.0903	2665
12	0.8410	2737	37	4.3044	7423
13	0.9235	6706	38	4.5266	8894
14	1.0090	8644	39	4.7571	6269
15	1.0978	1113	40	4.9960	8534
16	1.1899	6597	41	5.2436	4469
17	1.2857	7497	42	5.5000	2639
18	1.3854	6122	43	5.7654	1390
19	1.4892	4686	44	6.0399	8850
20	1.5973	5302	45	6.3239	2916
21	1.7099	9975	46	6.6174	1256
22	1.8274	0600	47	6.9206	1302
23	1.9497	8954	48	7.2337	0248
24	2.0773	6690	49	7.5568	5040
25	2.2103	5335	50	7.8902	2381

$$e = 23^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
50	7.8902	2381	75	19.9809	2597
51	8.2339	8717	76	20.6297	4933
52	8.5883	0241	77	21.2922	3446
53	8.9533	2883	78	21.9684	6466
54	9.3292	2311	79	22.6585	1979
55	9.7161	3923	80	23.3624	7635
56	10.1142	2848	81	24.0804	0736
57	10.5236	3934	82	24.8123	8243
58	10.9445	1756	83	25.5584	6770
59	11.3770	0601	84	26.3187	2580
60	11.8212	4472	85	27.0932	1589
61	12.2773	7082	86	27.8819	9361
62	12.7455	1850	87	28.6851	1109
63	13.2258	1898	88	29.5026	1688
64	13.7184	0050	89	30.3345	5604
65	14.2233	8825	90	31.1809	7001
66	14.7409	0437	91	32.0418	9670
67	15.2710	6791	92	32.9173	7042
68	15.8139	9478	93	33.8074	2189
69	16.3697	9778	94	34.7120	7825
70	16.9385	8648	95	35.6313	6301
71	17.5204	6730	96	36.5652	9610
72	18.1155	4339	97	37.5138	9381
73	18.7239	1466	98	38.4771	6883
74	19.3456	7775	99	39.4551	3021
75	19.9809	2597	100	40.4477	8340

$$e = 23^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
100	40.4477	8340	125	69.9809	2597
101	41.4551	3021	126	71.3456	7775
102	42.4771	6883	127	72.7239	1466
103	43.5138	9381	128	74.1155	4339
104	44.5652	9610	129	75.5204	6730
105	45.6313	6301	130	76.9385	8648
106	46.7120	7825	131	78.3697	9778
107	47.8074	2189	132	79.8139	9478
108	48.9173	7042	133	81.2710	6791
109	50.0418	9670	134	82.7409	0437
110	51.1809	7001	135	84.2233	8825
111	52.3345	5604	136	85.7184	0050
112	53.5026	1688	137	87.2258	1898
113	54.6851	1109	138	88.7455	1850
114	55.8819	9361	139	90.2773	7082
115	57.0932	1589	140	91.8212	4472
116	58.3187	2580	141	93.3770	0601
117	59.5584	6770	142	94.9445	1756
118	60.8123	8243	143	96.5236	3934
119	62.0804	0736	144	98.1142	2848
120	63.3624	7635	145	99.7161	3923
121	64.6585	1979	146	101.3292	2311
122	65.9684	6466	147	102.9533	2883
123	67.2922	3446	148	104.5883	0241
124	68.6297	4933	149	106.2339	8717
125	69.9809	2597	150	107.8902	2381

$$e = 23^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
150	107.8902	2381	175	152.2103	5335
151	109.5568	5040	176	154.0773	6690
152	111.2337	0248	177	155.9497	8954
153	112.9206	1302	178	157.8274	0600
154	114.6174	1256	179	159.7099	9975
155	116.3239	2916	180	161.5973	5302
156	118.0399	8850	181	163.4892	4686
157	119.7654	1390	182	165.3854	6122
158	121.5000	2639	183	167.2857	7497
159	123.2436	4469	184	169.1899	6597
160	124.9960	8534	185	171.0978	1113
161	126.7571	6269	186	173.0090	8644
162	128.5266	8894	187	174.9235	6706
163	130.3044	7423	188	176.8410	2737
164	132.0903	2665	189	178.7612	4098
165	133.8840	5230	190	180.6839	8085
166	135.6854	5535	191	182.6090	1932
167	137.4943	3806	192	184.5361	2813
168	139.3105	0085	193	186.4650	7854
169	141.1337	4235	194	188.3956	4134
170	142.9638	5943	195	190.3275	8694
171	144.8006	4727	196	192.2606	8538
172	146.6438	9941	197	194.1947	0644
173	148.4934	0778	198	196.1294	1967
174	150.3489	6280	199	198.0645	9444
175	152.2103	5335	200	200.0000	0000

$$e = 24^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	2.3484	2825
1	0.0702	6175	26	2.4922	5658
2	0.1407	5290	27	2.6418	8509
3	0.2117	0279	28	2.7975	2360
4	0.2833	4065	29	2.9593	8045
5	0.3558	9554	30	3.1276	6243
6	0.4295	9629	31	3.3025	7476
7	0.5046	7146	32	3.4843	2101
8	0.5813	4925	33	3.6731	0308
9	0.6598	5748	34	3.8691	2112
10	0.7404	2352	35	4.0725	7350
11	0.8232	7422	36	4.2836	5677
12	0.9086	3588	37	4.5025	6557
13	0.9967	3416	38	4.7294	9262
14	1.0877	9407	39	4.9646	2867
15	1.1820	3988	40	5.2081	6245
16	1.2796	9506	41	5.4602	8058
17	1.3809	8225	42	5.7211	6761
18	1.4861	2320	43	5.9910	0590
19	1.5953	3871	44	6.2699	7561
20	1.7088	4855	45	6.5582	5464
21	1.8268	7146	46	6.8560	1859
22	1.9496	2506	47	7.1634	4073
23	2.0773	2578	48	7.4806	9194
24	2.2101	8886	49	7.8079	4069
25	2.3484	2825	50	8.1453	5297

$$e = 24^c$$

θ	mean anomaly		θ	mean anomaly	
50	8.1453	5297	75	20.3142	6828
51	8.4930	9225	76	20.9652	1930
52	8.8513	1948	77	21.6297	4933
53	9.2201	9299	78	22.3079	4113
54	9.5998	6852	79	22.9998	7412
55	9.9904	9912	80	23.7056	2431
56	10.3922	3514	81	24.4252	6428
57	10.8052	2419	82	25.1588	6323
58	11.2296	1111	83	25.9064	8688
59	11.6655	3792	84	26.6681	9749
60	12.1131	4381	85	27.4440	5388
61	12.5725	6506	86	28.2341	1133
62	13.0439	3506	87	29.0384	2164
63	13.5273	8423	88	29.8570	3312
64	14.0230	4003	89	30.6899	9049
65	14.5310	2689	90	31.5373	3499
66	15.0514	6622	91	32.3991	0428
67	15.5844	7634	92	33.2753	3246
68	16.1301	7247	93	34.1660	5008
69	16.6886	6671	94	35.0712	8409
70	17.2600	6798	95	35.9910	5788
71	17.8444	8204	96	36.9253	9125
72	18.4420	1143	97	37.8743	0039
73	19.0527	5545	98	38.8377	9791
74	19.6768	1015	99	39.8158	9282
75	20.3142	6828	100	40.8085	9052

$$e = 24^c$$

θ	mean anomaly		θ	mean anomaly	
100	40.8085	9052	125	70.3142	6828
101	41.8158	9282	126	71.6768	1015
102	42.8377	9791	127	73.0527	5545
103	43.8743	0039	128	74.4420	1143
104	44.9253	9125	129	75.8444	8204
105	45.9910	5788	130	77.2600	6798
106	47.0712	8409	131	78.6886	6671
107	48.1660	5008	132	80.1301	7247
108	49.2753	3246	133	81.5844	7634
109	50.3991	0428	134	83.0514	6622
110	51.5373	3499	135	84.5310	2689
111	52.6899	9049	136	86.0230	4003
112	53.8570	3312	137	87.5273	8423
113	55.0384	2164	138	89.0439	3506
114	56.2341	1133	139	90.5725	6506
115	57.4440	5388	140	92.1131	4381
116	58.6681	9749	141	93.6655	3792
117	59.9064	8688	142	95.2296	1111
118	61.1588	6323	143	96.8052	2419
119	62.4252	6428	144	98.3922	3514
120	63.7056	2431	145	99.9904	9912
121	64.9998	7412	146	101.5998	6852
122	66.3079	4113	147	103.2201	9299
123	67.6297	4933	148	104.8513	1948
124	68.9652	1930	149	106.4930	9225
125	70.3142	6828	150	108.1453	5297

$$e = 24^c$$

θ	mean anomaly		θ	mean anomaly	
150	108.1453	5297	175	152.3484	2825
151	109.8079	4069	176	154.2101	8886
152	111.4806	9194	177	156.0773	2578
153	113.1634	4073	178	157.9496	2506
154	114.8560	1859	179	159.8268	7146
155	116.5582	5464	180	161.7088	4855
156	118.2699	7561	181	163.5953	3871
157	119.9910	0590	182	165.4861	2320
158	121.7211	6761	183	167.3809	8225
159	123.4602	8058	184	169.2796	9506
160	125.2081	6245	185	171.1820	3988
161	126.9646	2867	186	173.0877	9407
162	128.7294	9262	187	174.9967	3416
163	130.5025	6557	188	176.9086	3588
164	132.2836	5677	189	178.8232	7422
165	134.0725	7350	190	180.7404	2352
166	135.8691	2112	191	182.6598	5748
167	137.6731	0308	192	184.5813	4925
168	139.4843	2101	193	186.5046	7146
169	141.3025	7476	194	188.4295	9629
170	143.1276	6243	195	190.3558	9554
171	144.9593	8045	196	192.2833	4065
172	146.7975	2360	197	194.2117	0279
173	148.6418	8509	198	196.1407	5290
174	150.4922	5658	199	198.0702	6175
175	152.3484	2825	200	200.0000	0000

$$e = 25^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	2.4920	9210
1	0.0761	5846	26	2.6413	5055
2	0.1525	4486	27	2.7963	7240
3	0.2293	8710	28	2.9573	6614
4	0.3069	1294	29	3.1245	3877
5	0.3853	5000	30	3.2980	9578
6	0.4649	2565	31	3.4782	4109
7	0.5458	6700	32	3.6651	7698
8	0.6284	0081	33	3.8591	0406
9	0.7127	5346	34	4.0602	2123
10	0.7991	5085	35	4.2687	2558
11	0.8878	1842	36	4.4848	1242
12	0.9789	8102	37	4.7086	7516
13	1.0728	6289	38	4.9405	0530
14	1.1696	8760	39	5.1804	9238
15	1.2696	7800	40	5.4288	2391
16	1.3730	5615	41	5.6856	8537
17	1.4800	4328	42	5.9512	6010
18	1.5908	5973	43	6.2257	2932
19	1.7057	2489	44	6.5092	7204
20	1.8248	5715	45	6.8020	6504
21	1.9484	7385	46	7.1042	8281
22	2.0767	9124	47	7.4160	9751
23	2.2100	2438	48	7.7376	7895
24	2.3483	8713	49	8.0691	9451
25	2.4920	9210	50	8.4108	0914

$$e = 25^c$$

θ	mean anomaly		θ	mean anomaly	
50	8.4108	0914	75	20.6611	0348
51	8.7626	8527	76	21.3142	6828
52	9.1249	8284	77	21.9809	2597
53	9.4978	5917	78	22.6611	5879
54	9.8814	6900	79	23.3550	4565
55	10.2759	6442	80	24.0626	6206
56	10.6814	9483	81	24.7840	8017
57	11.0982	0690	82	25.5193	6873
58	11.5262	4456	83	26.2685	9303
59	11.9657	4891	84	27.0318	1496
60	12.4168	5826	85	27.8090	9293
61	12.8797	0805	86	28.6004	8191
62	13.3544	3079	87	29.4060	3336
63	13.8411	5610	88	30.2257	9525
64	14.3400	1062	89	31.0598	1207
65	14.8511	1800	90	31.9081	2476
66	15.3745	9886	91	32.7707	7076
67	15.9105	7079	92	33.6477	8394
68	16.4591	4826	93	34.5391	9466
69	17.0204	4267	94	35.4450	2971
70	17.5945	6226	95	36.3653	1232
71	18.1816	1211	96	37.3000	6217
72	18.7816	9410	97	38.2492	9534
73	19.3949	0692	98	39.2130	2438
74	20.0213	4598	99	40.1912	5822
75	20.6611	0348	100	41.1840	0223

$$e = 25^c$$

θ	mean anomaly		θ	mean anomaly	
100	41.1840	0223	125	70.6611	0348
101	42.1912	5822	126	72.0213	4598
102	43.2130	2438	127	73.3949	0692
103	44.2492	9534	128	74.7816	9410
104	45.3000	6217	129	76.1816	1211
105	46.3653	1232	130	77.5945	6226
106	47.4450	2971	131	79.0204	4267
107	48.5391	9466	132	80.4591	4826
108	49.6477	8394	133	81.9105	7079
109	50.7707	7076	134	83.3745	9886
110	51.9081	2476	135	84.8511	1800
111	53.0598	1207	136	86.3400	1062
112	54.2257	9525	137	87.8411	5610
113	55.4060	3336	138	89.3544	3079
114	56.6004	8191	139	90.8797	0805
115	57.8090	9293	140	92.4168	5826
116	59.0318	1496	141	93.9657	4891
117	60.2685	9303	142	95.5262	4456
118	61.5193	6873	143	97.0982	0690
119	62.7840	8017	144	98.6814	9483
120	64.0626	6206	145	100.2759	6442
121	65.3550	4565	146	101.8814	6900
122	66.6611	5879	147	103.4978	5917
123	67.9809	2597	148	105.1249	8284
124	69.3142	6828	149	106.7626	8527
125	70.6611	0348	150	108.4108	0914

$$e = 25^c$$

θ	mean anomaly		θ	mean anomaly	
150	108.4108	0914	175	152.4920	9210
151	110.0691	9451	176	154.3483	8713
152	111.7376	7895	177	156.2100	2438
153	113.4160	9751	178	158.0767	9124
154	115.1042	8281	179	159.9484	7385
155	116.8020	6504	180	161.8248	5715
156	118.5092	7204	181	163.7057	2489
157	120.2257	2932	182	165.5908	5973
158	121.9512	6010	183	167.4800	4328
159	123.6856	8537	184	169.3730	5615
160	125.4288	2391	185	171.2696	7800
161	127.1804	9238	186	173.1696	8760
162	128.9405	0530	187	175.0728	6289
163	130.7086	7516	188	176.9789	8102
164	132.4848	1242	189	178.8878	1842
165	134.2687	2558	190	180.7991	5085
166	136.0602	2123	191	182.7127	5346
167	137.8591	0406	192	184.6284	0081
168	139.6651	7698	193	186.5458	6700
169	141.4782	4109	194	188.4649	2565
170	143.2980	9578	195	190.3853	5000
171	145.1245	3877	196	192.3069	1294
172	146.9573	6614	197	194.2293	8710
173	148.7963	7240	198	196.1525	4486
174	150.6413	5055	199	198.0761	5846
175	152.4920	9210	200	200.0000	0000

$$e = 26^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	2.6413	0943
1	0.0822	8311	26	2.7962	0792
2	0.1647	9266	27	2.9568	3160
3	0.2477	5502	28	3.1233	8757
4	0.3313	9645	29	3.2960	8147
5	0.4159	4306	30	3.4751	1743
6	0.5016	2071	31	3.6606	9800
7	0.5886	5501	32	3.8530	2414
8	0.6772	7121	33	4.0522	9513
9	0.7676	9418	34	4.2587	0853
10	0.8601	4836	35	4.4724	6015
11	0.9548	5765	36	4.6937	4398
12	1.0520	4543	37	4.9227	5216
13	1.1519	3446	38	5.1596	7492
14	1.2547	4682	39	5.4047	0054
15	1.3607	0388	40	5.6580	1530
16	1.4700	2623	41	5.9198	0343
17	1.5829	3363	42	6.1902	4707
18	1.6996	4497	43	6.4695	2624
19	1.8203	7817	44	6.7578	1875
20	1.9453	5019	45	7.0553	0021
21	2.0747	7693	46	7.3621	4396
22	2.2088	7317	47	7.6785	2102
23	2.3478	5259	48	8.0046	0007
24	2.4919	2761	49	8.3405	4739
25	2.6413	0943	50	8.6865	2681

$$e = 26^c$$

θ	mean anomaly		θ	mean anomaly	
50	8.6865	2681	75	21.0213	4598
51	9.0426	9972	76	21.6768	1015
52	9.4092	2497	77	22.3456	7775
53	9.7862	5885	78	23.0280	3048
54	10.1739	5507	79	23.7239	4673
55	10.5724	6472	80	24.4335	0152
56	10.9819	3619	81	25.1567	6650
57	11.4025	1520	82	25.8938	0997
58	11.8343	4470	83	26.6446	9681
59	12.2775	6490	84	27.4094	8847
60	12.7323	1315	85	28.1882	4299
61	13.1987	2399	86	28.9810	1496
62	13.6769	2909	87	29.7878	5552
63	14.1670	5718	88	30.6088	1231
64	14.6692	3407	89	31.4439	2952
65	15.1835	8259	90	32.2932	4784
66	15.7102	2256	91	33.1568	0442
67	16.2492	7078	92	34.0346	3296
68	16.8008	4099	93	34.9267	6357
69	17.3650	4382	94	35.8332	2290
70	17.9419	8680	95	36.7540	3400
71	18.5317	7432	96	37.6892	1642
72	19.1345	0759	97	38.6387	8616
73	19.7502	8463	98	39.6027	5565
74	20.3792	0024	99	40.5811	3379
75	21.0213	4598	100	41.5739	2591

$$e = 26^c$$

θ	mean anomaly		θ	mean anomaly	
100	41.5739	2591	125	71.0213	4598
101	42.5811	3379	126	72.3792	0024
102	43.6027	5565	127	73.7502	8463
103	44.6387	8616	128	75.1345	0759
104	45.6892	1642	129	76.5317	7432
105	46.7540	3400	130	77.9419	8680
106	47.8332	2290	131	79.3650	4382
107	48.9267	6357	132	80.8008	4099
108	50.0346	3296	133	82.2492	7078
109	51.1568	0442	134	83.7102	2256
110	52.2932	4784	135	85.1835	8259
111	53.4439	2952	136	86.6692	3407
112	54.6088	1231	137	88.1670	5718
113	55.7878	5552	138	89.6769	2909
114	56.9810	1496	139	91.1987	2399
115	58.1882	4299	140	92.7323	1315
116	59.4094	8847	141	94.2775	6490
117	60.6446	9681	142	95.8343	4470
118	61.8938	0997	143	97.4025	1520
119	63.1567	6650	144	98.9819	3619
120	64.4335	0152	145	100.5724	6472
121	65.7239	4673	146	102.1739	5507
122	67.0280	3048	147	103.7862	5885
123	68.3456	7775	148	105.4092	2497
124	69.6768	1015	149	107.0426	9972
125	71.0213	4598	150	108.6865	2681

$$e = 26^c$$

θ	mean anomaly		θ	mean anomaly	
150	108.6865	2681	175	152.6413	0943
151	110.3405	4739	176	154.4919	2761
152	112.0046	0007	177	156.3478	5259
153	113.6785	2102	178	158.2088	7317
154	115.3621	4396	179	160.0747	7693
155	117.0553	0021	180	161.9453	5019
156	118.7578	1875	181	163.8203	7817
157	120.4695	2624	182	165.6996	4497
158	122.1902	4707	183	167.5829	3363
159	123.9198	0343	184	169.4700	2623
160	125.6580	1530	185	171.3607	0388
161	127.4047	0054	186	173.2547	4682
162	129.1596	7492	187	175.1519	3446
163	130.9227	5216	188	177.0520	4543
164	132.6937	4398	189	178.9548	5765
165	134.4724	6015	190	180.8601	4836
166	136.2587	0853	191	182.7676	9418
167	138.0522	9513	192	184.6772	7121
168	139.8530	2414	193	186.5886	5501
169	141.6606	9800	194	188.5016	2071
170	143.4751	1743	195	190.4159	4306
171	145.2960	8147	196	192.3313	9645
172	147.1233	8757	197	194.2477	5502
173	148.9568	3160	198	196.1647	9266
174	150.7962	0792	199	198.0822	8311
175	152.6413	0943	200	200.0000	0000

$$e = 27^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	2.7960	4343
1	0.0886	3420	26	2.9567	9047
2	0.1774	9327	27	3.1232	2308
3	0.2668	0202	28	3.2955	4693
4	0.3567	8514	29	3.4739	6622
5	0.4476	6717	30	3.6586	8369
6	0.5396	7242	31	3.8499	0048
7	0.6330	2492	32	4.0478	1615
8	0.7279	4838	33	4.2526	2861
9	0.8246	6611	34	4.4645	3405
10	0.9234	0098	35	4.6837	2692
11	1.0243	7536	36	4.9103	9988
12	1.1278	1109	37	5.1447	4374
13	1.2339	2936	38	5.3869	4740
14	1.3429	5073	39	5.6371	9784
15	1.4550	9504	40	5.8956	8006
16	1.5705	8136	41	6.1625	7701
17	1.6896	2791	42	6.4380	6957
18	1.8124	5208	43	6.7223	3650
19	1.9392	7027	44	7.0155	5441
20	2.0702	9795	45	7.3178	9767
21	2.2057	4951	46	7.6295	3843
22	2.3458	3828	47	7.9506	4652
23	2.4907	7641	48	8.2813	8946
24	2.6407	7489	49	8.6219	3238
25	2.7960	4343	50	8.9724	3797

$$e = 27^c$$

θ	mean anomaly		θ	mean anomaly	
50	8.9724	3797	75	21.3949	0692
51	9.3330	6651	76	22.0527	5545
52	9.7039	7573	77	22.7239	1466
53	10.0853	2087	78	23.4084	6569
54	10.4772	5456	79	24.1064	8635
55	10.8799	2684	80	24.8180	5117
56	11.2934	8508	81	25.5432	3131
57	11.7180	7399	82	26.2820	9458
58	12.1538	3554	83	27.0347	0541
59	12.6009	0894	84	27.8011	2484
60	13.0594	3062	85	28.5814	1050
61	13.5295	3419	86	29.3756	1660
62	14.0113	5038	87	30.1837	9392
63	14.5050	0706	88	31.0059	8979
64	15.0106	2915	89	31.8422	4808
65	15.5283	3863	90	32.6926	0918
66	16.0582	5451	91	33.5571	1003
67	16.6004	9276	92	34.4357	8406
68	17.1551	6634	93	35.3286	6119
69	17.7223	8512	94	36.2357	6786
70	18.3022	5588	95	37.1571	2699
71	18.8948	8229	96	38.0927	5799
72	19.5003	6486	97	39.0426	7673
73	20.1188	0092	98	40.0068	9557
74	20.7502	8463	99	40.9854	2335
75	21.3949	0692	100	41.9782	6535

$$e = 27^c$$

θ	mean anomaly		θ	mean anomaly	
100	41.9782	6535	125	71.3949	0692
101	42.9854	2335	126	72.7502	8463
102	44.0068	9557	127	74.1188	0092
103	45.0426	7673	128	75.5003	6486
104	46.0927	5799	129	76.8948	8229
105	47.1571	2699	130	78.3022	5588
106	48.2357	6786	131	79.7223	8512
107	49.3286	6119	132	81.1551	6634
108	50.4357	8406	133	82.6004	9276
109	51.5571	1003	134	84.0582	5451
110	52.6926	0918	135	85.5283	3863
111	53.8422	4808	136	87.0106	2915
112	55.0059	8979	137	88.5050	0706
113	56.1837	9392	138	90.0113	5038
114	57.3756	1660	139	91.5295	3419
115	58.5814	1050	140	93.0594	3062
116	59.8011	2484	141	94.6009	0894
117	61.0347	0541	142	96.1538	3554
118	62.2820	9458	143	97.7180	7399
119	63.5432	3131	144	99.2934	8508
120	64.8180	5117	145	100.8799	2684
121	66.1064	8635	146	102.4772	5456
122	67.4084	6569	147	104.0853	2087
123	68.7239	1466	148	105.7039	7573
124	70.0527	5545	149	107.3330	6651
125	71.3949	0692	150	108.9724	3797

$$e = 27^c$$

θ	mean anomaly		θ	mean anomaly	
150	108.9724	3797	175	152.7960	4343
151	110.6219	3238	176	154.6407	7489
152	112.2813	8946	177	156.4907	7641
153	113.9506	4652	178	158.3458	3828
154	115.6295	3843	179	160.2057	4951
155	117.3178	9767	180	162.0702	9795
156	119.0155	5441	181	163.9392	7027
157	120.7223	3650	182	165.8124	5208
158	122.4380	6957	183	167.6896	2791
159	124.1625	7701	184	169.5705	8136
160	125.8956	8006	185	171.4550	9504
161	127.6371	9784	186	173.3429	5073
162	129.3869	4740	187	175.2339	2936
163	131.1447	4374	188	177.1278	1109
164	132.9103	9988	189	179.0243	7536
165	134.6837	2692	190	180.9234	0098
166	136.4645	3405	191	182.8246	6611
167	138.2526	2861	192	184.7279	4838
168	140.0478	1615	193	186.6330	2492
169	141.8499	0048	194	188.5396	7242
170	143.6586	8369	195	190.4476	6717
171	145.4739	6622	196	192.3567	8514
172	147.2955	4693	197	194.2668	0202
173	149.1232	2308	198	196.1774	9327
174	150.9567	9047	199	198.0886	3420
175	152.7960	4343	200	200.0000	0000

$$e = 28^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	2.9562	5593
1	0.0952	1016	26	3.1230	5859
2	0.1906	4356	27	3.2955	0580
3	0.2865	2339	28	3.4738	0174
4	0.3830	7273	29	3.6581	4915
5	0.4805	1449	30	3.8487	4928
6	0.5790	7137	31	4.0458	0184
7	0.6789	6579	32	4.2495	0495
8	0.7804	1982	33	4.4600	5507
9	0.8836	5517	34	4.6776	4700
10	0.9888	9312	35	4.9024	7379
11	1.0963	5442	36	5.1347	2668
12	1.2062	5929	37	5.3745	9512
13	1.3188	2736	38	5.6222	6666
14	1.4342	7759	39	5.8779	2692
15	1.5528	2821	40	6.1417	5955
16	1.6746	9673	41	6.4139	4620
17	1.8000	9980	42	6.6946	6644
18	1.9292	5322	43	6.9840	9774
19	2.0623	7185	44	7.2824	1542
20	2.1996	6959	45	7.5897	9262
21	2.3413	5930	46	7.9064	0023
22	2.4876	5275	47	8.2324	0687
23	2.6387	6057	48	8.5679	7883
24	2.7948	9223	49	8.9132	8005
25	2.9562	5593	50	9.2684	7207

$$e = 28^c$$

θ	mean anomaly		θ	mean anomaly	
50	9.2684	7207	75	21.7816	9410
51	9.6337	1398	76	22.4420	1143
52	10.0091	6241	77	23.1155	4339
53	10.3949	7144	78	23.8023	7053
54	10.7912	9263	79	24.5025	7013
55	11.1982	7493	80	25.2162	1615
56	11.6160	6464	81	25.9433	7925
57	12.0448	0542	82	26.6841	2675
58	12.4846	3823	83	27.4385	2261
59	12.9357	0127	84	28.2066	2744
60	13.3981	2998	85	28.9884	9845
61	13.8720	5702	86	29.7841	8945
62	14.3576	1216	87	30.5937	5087
63	14.8549	2235	88	31.4172	2968
64	15.3641	1162	89	32.2546	6945
65	15.8853	0107	90	33.1061	1027
66	16.4186	0883	91	33.9715	8882
67	16.9641	5006	92	34.8511	3827
68	17.5220	3689	93	35.7447	8834
69	18.0923	7840	94	36.6525	6529
70	18.6752	8060	95	37.5744	9185
71	19.2708	4641	96	38.5105	8730
72	19.8791	7562	97	39.4608	6740
73	20.5003	6486	98	40.4253	4443
74	21.1345	0759	99	41.4040	2713
75	21.7816	9410	100	42.3969	2078

$$e = 28^c$$

θ	mean anomaly		θ	mean anomaly	
100	42.3969	2078	125	71.7816	9410
101	43.4040	2713	126	73.1345	0759
102	44.4253	4443	127	74.5003	6486
103	45.4608	6740	128	75.8791	7562
104	46.5105	8730	129	77.2708	4641
105	47.5744	9185	130	78.6752	8060
106	48.6525	6529	131	80.0923	7840
107	49.7447	8834	132	81.5220	3689
108	50.8511	3827	133	82.9641	5006
109	51.9715	8882	134	84.4186	0883
110	53.1061	1027	135	85.8853	0107
111	54.2546	6945	136	87.3641	1162
112	55.4172	2968	137	88.8549	2235
113	56.5937	5087	138	90.3576	1216
114	57.7841	8945	139	91.8720	5702
115	58.9884	9845	140	93.3981	2998
116	60.2066	2744	141	94.9357	0127
117	61.4385	2261	142	96.4846	3823
118	62.6841	2675	143	98.0448	0542
119	63.9433	7925	144	99.6160	6464
120	65.2162	1615	145	101.1982	7493
121	66.5025	7013	146	102.7912	9263
122	67.8023	7053	147	104.3949	7144
123	69.1155	4339	148	106.0091	6241
124	70.4420	1143	149	107.6337	1398
125	71.7816	9410	150	109.2684	7207

$$e = 28^c$$

θ	mean anomaly		θ	mean anomaly	
150	109.2684	7207	175	152.9562	5593
151	110.9132	8005	176	154.7948	9223
152	112.5679	7883	177	156.6387	6057
153	114.2324	0687	178	158.4876	5275
154	115.9064	0023	179	160.3413	5930
155	117.5897	9262	180	162.1996	6959
156	119.2824	1542	181	164.0623	7185
157	120.9840	9774	182	165.9292	5322
158	122.6946	6644	183	167.8000	9980
159	124.4139	4620	184	169.6746	9673
160	126.1417	5955	185	171.5528	2821
161	127.8779	2692	186	173.4342	7759
162	129.6222	6666	187	175.3188	2736
163	131.3745	9512	188	177.2062	5929
164	133.1347	2668	189	179.0963	5442
165	134.9024	7379	190	180.9888	9312
166	136.6776	4700	191	182.8836	5517
167	138.4600	5507	192	184.7804	1982
168	140.2495	0495	193	186.6789	6579
169	142.0458	0184	194	188.5790	7137
170	143.8487	4928	195	190.4805	1449
171	145.6581	4915	196	192.3830	7273
172	147.4738	0174	197	194.2865	2339
173	149.2955	0580	198	196.1906	4356
174	151.1230	5859	199	198.0952	1016
175	152.9562	5593	200	200.0000	0000

$$e = 29^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	3.1219	0739
1	0.1020	0935	26	3.2949	7126
2	0.2042	4027	27	3.4736	3725
3	0.3069	1427	28	3.6581	0803
4	0.4102	5274	29	3.8485	8479
5	0.5144	7694	30	4.0452	6730
6	0.6198	0786	31	4.2483	5375
7	0.7264	6627	32	4.4580	4076
8	0.8346	7258	33	4.6745	2334
9	0.9446	4683	34	4.8979	9481
10	1.0566	0861	35	5.1286	4676
11	1.1707	7705	36	5.3666	6903
12	1.2873	7069	37	5.6122	4960
13	1.4066	0752	38	5.8655	7464
14	1.5287	0484	39	6.1268	2837
15	1.6538	7927	40	6.3961	9305
16	1.7823	4666	41	6.6738	4898
17	1.9143	2203	42	6.9599	7437
18	2.0500	1958	43	7.2547	4536
19	2.1896	5254	44	7.5583	3595
20	2.3334	3320	45	7.8709	1799
21	2.4815	7283	46	8.1926	6107
22	2.6342	8160	47	8.5237	3254
23	2.7917	6857	48	8.8642	9746
24	2.9542	4162	49	9.2145	1852
25	3.1219	0739	50	9.5745	5606

$$e = 29^c$$

θ	mean anomaly		θ	mean anomaly	
50	9.5745	5606	75	22.1816	1211
51	9.9445	6797	76	22.8444	8204
52	10.3247	0970	77	23.5204	6730
53	10.7151	3417	78	24.2096	4783
54	11.1159	9181	79	24.9121	0033
55	11.5274	3044	80	25.6278	9821
56	11.9495	9527	81	26.3571	1159
57	12.3826	2887	82	27.0998	0729
58	12.8266	7115	83	27.8560	4878
59	13.2818	5927	84	28.6258	9622
60	13.7483	2766	85	29.4094	0640
61	14.2262	0795	86	30.2066	3272
62	14.7156	2898	87	31.0176	2522
63	15.2167	1672	88	31.8424	3053
64	15.7295	9427	89	32.6810	9188
65	16.2543	8182	90	33.5336	4908
66	16.7911	9663	91	34.4001	3851
67	17.3401	5296	92	35.2805	9310
68	17.9013	6213	93	36.1750	4237
69	18.4749	3238	94	37.0835	1233
70	19.0609	6893	95	38.0060	2560
71	19.6595	7393	96	38.9426	0127
72	20.2708	4641	97	39.8932	5500
73	20.8948	8229	98	40.8579	9896
74	21.5317	7432	99	41.8368	4186
75	22.1816	1211	100	42.8297	8891

$$e = 29^c$$

θ	mean anomaly		θ	mean anomaly	
100	42.8297	8891	125	72.1816	1211
101	43.8368	4186	126	73.5317	7432
102	44.8579	9896	127	74.8948	8229
103	45.8932	5500	128	76.2708	4641
104	46.9426	0127	129	77.6595	7393
105	48.0060	2560	130	79.0609	6893
106	49.0835	1233	131	80.4749	3238
107	50.1750	4237	132	81.9013	6213
108	51.2805	9310	133	83.3401	5296
109	52.4001	3851	134	84.7911	9663
110	53.5336	4908	135	86.2543	8182
111	54.6810	9188	136	87.7295	9427
112	55.8424	3053	137	89.2167	1672
113	57.0176	2522	138	90.7156	2898
114	58.2066	3272	139	92.2262	0795
115	59.4094	0640	140	93.7483	2766
116	60.6258	9622	141	95.2818	5927
117	61.8560	4878	142	96.8266	7115
118	63.0998	0729	143	98.3826	2887
119	64.3571	1159	144	99.9495	9527
120	65.6278	9821	145	101.5274	3044
121	66.9121	0033	146	103.1159	9181
122	68.2096	4783	147	104.7151	3417
123	69.5204	6730	148	106.3247	0970
124	70.8444	8204	149	107.9445	6797
125	72.1816	1211	150	109.5745	5606

$$e = 29^c$$

θ	mean anomaly		θ	mean anomaly	
150	109.5745	5606	175	153.1219	0739
151	111.2145	1852	176	154.9542	4162
152	112.8642	9746	177	156.7917	6857
153	114.5237	3254	178	158.6342	8160
154	116.1926	6107	179	160.4815	7283
155	117.8709	1799	180	162.3334	3320
156	119.5583	3595	181	164.1896	5254
157	121.2547	4536	182	166.0500	1958
158	122.9599	7437	183	167.9143	2203
159	124.6738	4898	184	169.7823	4666
160	126.3961	9305	185	171.6538	7927
161	128.1268	2837	186	173.5287	0484
162	129.8655	7464	187	175.4066	0752
163	131.6122	4960	188	177.2873	7069
164	133.3666	6903	189	179.1707	7705
165	135.1286	4676	190	181.0566	0861
166	136.8979	9481	191	182.9446	4683
167	138.6745	2334	192	184.8346	7258
168	140.4580	4076	193	186.7264	6627
169	142.2483	5375	194	188.6198	0786
170	144.0452	6730	195	190.5144	7694
171	145.8485	8479	196	192.4102	5274
172	147.6581	0803	197	194.3069	1427
173	149.4736	3725	198	196.2042	4027
174	151.2949	7126	199	198.1020	0935
175	153.1219	0739	200	200.0000	0000

$$e = 30^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	3.2929	5695
1	0.1090	3012	26	3.4724	8605
2	0.2182	8007	27	3.6575	7348
3	0.3279	6963	28	3.8484	2031
4	0.4383	1848	29	4.0452	2618
5	0.5495	4611	30	4.2481	8926
6	0.6618	7183	31	4.4575	0622
7	0.7755	1466	32	4.6733	7214
8	0.8906	9328	33	4.8959	8050
9	1.0076	2602	34	5.1255	2310
10	1.1265	3076	35	5.3621	9005
11	1.2476	2489	36	5.6061	6968
12	1.3711	2527	37	5.8576	4854
13	1.4972	4817	38	6.1168	1131
14	1.6262	0921	39	6.3838	4078
15	1.7582	2329	40	6.6589	1779
16	1.8935	0458	41	6.9422	2122
17	2.0322	6643	42	7.2339	2790
18	2.1747	2135	43	7.5342	1258
19	2.3210	8093	44	7.8432	4792
20	2.4715	5577	45	8.1612	0440
21	2.6263	5550	46	8.4882	5029
22	2.7856	8865	47	8.8245	5165
23	2.9497	6264	48	9.1702	7223
24	3.1187	8373	49	9.5255	7347
25	3.2929	5695	50	9.8906	1442

$$e = 30^c$$

θ	mean anomaly		θ	mean anomaly	
50	9.8906	1442	75	22.5945	6226
51	10.2655	5177	76	23.2600	6798
52	10.6505	3974	77	23.9385	8648
53	11.0457	3006	78	24.6301	9710
54	11.4512	7198	79	25.3349	7591
55	11.8673	1215	80	26.0529	9577
56	12.2939	9467	81	26.7843	2624
57	12.7314	6100	82	27.5290	3362
58	13.1798	4992	83	28.2871	8089
59	13.6392	9754	84	29.0588	2774
60	14.1099	3724	85	29.8440	3049
61	14.5918	9963	86	30.6428	4216
62	15.0853	1252	87	31.4553	1238
63	15.5903	0090	88	32.2814	8742
64	16.1069	8692	89	33.1214	1016
65	16.6354	8983	90	33.9751	2011
66	17.1759	2595	91	34.8426	5337
67	17.7284	0869	92	35.7240	4261
68	18.2930	4845	93	36.6193	1709
69	18.8699	5266	94	37.5285	0267
70	19.4592	2571	95	38.4516	2175
71	20.0609	6893	96	39.3886	9329
72	20.6752	8060	97	40.3397	3283
73	21.3022	5588	98	41.3047	5243
74	21.9419	8680	99	42.2837	6074
75	22.5945	6226	100	43.2767	6294

$$e = 30^c$$

θ	mean anomaly		θ	mean anomaly	
100	43.2767	6294	125	72.5945	6226
101	44.2837	6074	126	73.9419	8680
102	45.3047	5243	127	75.3022	5588
103	46.3397	3283	128	76.6752	8060
104	47.3886	9329	129	78.0609	6893
105	48.4516	2175	130	79.4592	2571
106	49.5285	0267	131	80.8699	5266
107	50.6193	1709	132	82.2930	4845
108	51.7240	4261	133	83.7284	0869
109	52.8426	5337	134	85.1759	2595
110	53.9751	2011	135	86.6354	8983
111	55.1214	1016	136	88.1069	8692
112	56.2814	8742	137	89.5903	0090
113	57.4553	1238	138	91.0853	1252
114	58.6428	4216	139	92.5918	9963
115	59.8440	3049	140	94.1099	3724
116	61.0588	2774	141	95.6392	9754
117	62.2871	8089	142	97.1798	4992
118	63.5290	3362	143	98.7314	6100
119	64.7843	2624	144	100.2939	9467
120	66.0529	9577	145	101.8673	1215
121	67.3349	7591	146	103.4512	7198
122	68.6301	9710	147	105.0457	3006
123	69.9385	8648	148	106.6505	3974
124	71.2600	6798	149	108.2655	5177
125	72.5945	6226	150	109.8906	1442

$$e = 30^c$$

θ	mean anomaly		θ	mean anomaly	
150	109.8906	1442	175	153.2929	5695
151	111.5255	7347	176	155.1187	8373
152	113.1702	7223	177	156.9497	6264
153	114.8245	5165	178	158.7856	8865
154	116.4882	5029	179	160.6263	5550
155	118.1612	0440	180	162.4715	5577
156	119.8432	4792	181	164.3210	8093
157	121.5342	1258	182	166.1747	2135
158	123.2339	2790	183	168.0322	6643
159	124.9422	2122	184	169.8935	0458
160	126.6589	1779	185	171.7582	2329
161	128.3838	4078	186	173.6262	0921
162	130.1168	1131	187	175.4972	4817
163	131.8576	4854	188	177.3711	2527
164	133.6061	6968	189	179.2476	2489
165	135.3621	9005	190	181.1265	3076
166	137.1255	2310	191	183.0076	2602
167	138.8959	8050	192	184.8906	9328
168	140.6733	7214	193	186.7755	1466
169	142.4575	0622	194	188.6618	7183
170	144.2481	8926	195	190.5495	4611
171	146.0452	2618	196	192.4383	1848
172	147.8484	2031	197	194.3279	6963
173	149.6575	7348	198	196.2182	8007
174	151.4724	8605	199	198.1090	3012
175	153.2929	5695	200	200.0000	0000

$$e = 31^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	3.4693	6239
1	0.1162	7071	26	3.6555	5917
2	0.2327	5947	27	3.8472	6911
3	0.3496	8427	28	4.0446	9163
4	0.4672	6300	29	4.2480	2477
5	0.5857	1337	30	4.4574	6510
6	0.7052	5291	31	4.6732	0765
7	0.8260	9884	32	4.8954	4595
8	0.9484	6810	33	5.1243	7190
9	1.0725	7721	34	5.3601	7574
10	1.1986	4229	35	5.6030	4602
11	1.3268	7898	36	5.8531	6957
12	1.4575	0237	37	6.1107	3139
13	1.5907	2696	38	6.3759	1468
14	1.7267	6662	39	6.6489	0074
15	1.8658	3451	40	6.9298	6895
16	2.0081	4306	41	7.2189	9672
17	2.1539	0390	42	7.5164	5944
18	2.3033	2778	43	7.8224	3046
19	2.4566	2459	44	8.1370	8103
20	2.6140	0322	45	8.4605	8023
21	2.7756	7159	46	8.7930	9498
22	2.9418	3654	47	9.1347	8998
23	3.1127	0381	48	9.4858	2766
24	3.2884	7797	49	9.8463	6813
25	3.4693	6239	50	10.2165	6918

$$e = 31^c$$

θ	mean anomaly		θ	mean anomaly	
50	10.2165	6918	75	23.0204	4267
51	10.5965	8619	76	23.6886	6671
52	10.9865	7214	77	24.3697	9778
53	11.3866	7754	78	25.0639	1456
54	11.7970	5040	79	25.7710	9253
55	12.2178	3621	80	26.4914	0394
56	12.6491	7788	81	27.2249	1780
57	13.0912	1572	82	27.9716	9985
58	13.5440	8739	83	28.7318	1258
59	14.0079	2789	84	29.5053	1516
60	14.4828	6951	85	30.2922	6350
61	14.9690	4180	86	31.0927	1015
62	15.4665	7155	87	31.9067	0436
63	15.9755	8272	88	32.7342	9201
64	16.4961	9646	89	33.5755	1565
65	17.0285	3106	90	34.4304	1445
66	17.5727	0189	91	35.2990	2421
67	18.1288	2144	92	36.1813	7736
68	18.6969	9922	93	37.0775	0291
69	19.2773	4178	94	37.9874	2651
70	19.8699	5266	95	38.9111	7037
71	20.4749	3238	96	39.8487	5331
72	21.0923	7840	97	40.8001	9073
73	21.7223	8512	98	41.7654	9461
74	22.3650	4382	99	42.7446	7351
75	23.0204	4267	100	43.7377	3257

$$e = 31^c$$

θ	mean anomaly		θ	mean anomaly	
100	43.7377	3257	125	73.0204	4267
101	44.7446	7351	126	74.3650	4382
102	45.7654	9461	127	75.7223	8512
103	46.8001	9073	128	77.0923	7840
104	47.8487	5331	129	78.4749	3238
105	48.9111	7037	130	79.8699	5266
106	49.9874	2651	131	81.2773	4178
107	51.0775	0291	132	82.6969	9922
108	52.1813	7736	133	84.1288	2144
109	53.2990	2421	134	85.5727	0189
110	54.4304	1445	135	87.0285	3106
111	55.5755	1565	136	88.4961	9646
112	56.7342	9201	137	89.9755	8272
113	57.9067	0436	138	91.4665	7155
114	59.0927	1015	139	92.9690	4180
115	60.2922	6350	140	94.4828	6951
116	61.5053	1516	141	96.0079	2789
117	62.7318	1258	142	97.5440	8739
118	63.9716	9985	143	99.0912	1572
119	65.2249	1780	144	100.6491	7788
120	66.4914	0394	145	102.2178	3621
121	67.7710	9253	146	103.7970	5040
122	69.0639	1456	147	105.3866	7754
123	70.3697	9778	148	106.9865	7214
124	71.6886	6671	149	108.5965	8619
125	73.0204	4267	150	110.2165	6918

$$e = 31^c$$

θ	mean anomaly		θ	mean anomaly	
150	110.2165	6918	175	153.4693	6239
151	111.8463	6813	176	155.2884	7797
152	113.4858	2766	177	157.1127	0381
153	115.1347	8998	178	158.9418	3654
154	116.7930	9498	179	160.7756	7159
155	118.4605	8023	180	162.6140	0322
156	120.1370	8103	181	164.4566	2459
157	121.8224	3046	182	166.3033	2778
158	123.5164	5944	183	168.1539	0390
159	125.2189	9672	184	170.0081	4306
160	126.9298	6895	185	171.8658	3451
161	128.6489	0074	186	173.7267	6662
162	130.3759	1468	187	175.5907	2696
163	132.1107	3139	188	177.4575	0237
164	133.8531	6957	189	179.3268	7898
165	135.6030	4602	190	181.1986	4229
166	137.3601	7574	191	183.0725	7721
167	139.1243	7190	192	184.9484	6810
168	140.8954	4595	193	186.8260	9884
169	142.6732	0765	194	188.7052	5291
170	144.4574	6510	195	190.5857	1337
171	146.2480	2477	196	192.4672	6300
172	148.0446	9163	197	194.3496	8427
173	149.8472	6911	198	196.2327	5947
174	151.6555	5917	199	198.1162	7071
175	153.4693	6239	200	200.0000	0000

$$e = 32^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	3.6510	8019
1	0.1237	2936	26	3.8441	4544
2	0.2476	7492	27	4.0426	7732
3	0.3720	5284	28	4.2468	7357
4	0.4970	7917	29	4.4569	3055
5	0.6229	6979	30	4.6730	4317
6	0.7499	4038	31	4.8954	0483
7	0.8782	0635	32	5.1242	0741
8	1.0079	8277	33	5.3596	4119
9	1.1394	8437	34	5.6018	9482
10	1.2729	2543	35	5.8511	5525
11	1.4085	1977	36	6.1076	0773
12	1.5464	8067	37	6.3714	3570
13	1.6870	2081	38	6.6428	2082
14	1.8303	5226	39	6.9219	4285
15	1.9766	8639	40	7.2089	7966
16	2.1262	3383	41	7.5041	0716
17	2.2792	0441	42	7.8074	9928
18	2.4358	0713	43	8.1193	2788
19	2.5962	5008	44	8.4397	6277
20	2.7607	4041	45	8.7689	7161
21	2.9294	8427	46	9.1071	1992
22	3.1026	8676	47	9.4543	7099
23	3.2805	5187	48	9.8108	8589
24	3.4632	8247	49	10.1768	2337
25	3.6510	8019	50	10.5523	3990

$$e = 32^c$$

θ	mean anomaly		θ	mean anomaly	
50	10.5523	3990	75	23.4591	4826
51	10.9375	8955	76	24.1301	7247
52	11.3327	2399	77	24.8139	9478
53	11.7378	9248	78	25.5106	9321
54	12.1532	4177	79	26.2203	4259
55	12.5789	1613	80	26.9430	1456
56	13.0150	5726	81	27.6787	7755
57	13.4618	0427	82	28.4276	9675
58	13.9192	9369	83	29.1898	3412
59	14.3876	5935	84	29.9652	4834
60	14.8670	3245	85	30.7539	9483
61	15.3575	4143	86	31.5561	2570
62	15.8593	1201	87	32.3716	8979
63	16.3724	6710	88	33.2007	3259
64	16.8971	2685	89	34.0432	9630
65	17.4334	0852	90	34.8994	1975
66	17.9814	2654	91	35.7691	3844
67	18.5412	9243	92	36.6524	8452
68	19.1131	1477	93	37.5494	8677
69	19.6969	9922	94	38.4601	7061
70	20.2930	4845	95	39.3845	5807
71	20.9013	6213	96	40.3226	6780
72	21.5220	3689	97	41.2745	1509
73	22.1551	6634	98	42.2401	1180
74	22.8008	4099	99	43.2194	6644
75	23.4591	4826	100	44.2125	8408

$$e = 32^c$$

θ	mean anomaly		θ	mean anomaly	
100	44.2125	8408	125	73.4591	4826
101	45.2194	6644	126	74.8008	4099
102	46.2401	1180	127	76.1551	6634
103	47.2745	1509	128	77.5220	3689
104	48.3226	6780	129	78.9013	6213
105	49.3845	5807	130	80.2930	4845
106	50.4601	7061	131	81.6969	9922
107	51.5494	8677	132	83.1131	1477
108	52.6524	8452	133	84.5412	9243
109	53.7691	3844	134	85.9814	2654
110	54.8994	1975	135	87.4334	0852
111	56.0432	9630	136	88.8971	2685
112	57.2007	3259	137	90.3724	6710
113	58.3716	8979	138	91.8593	1201
114	59.5561	2570	139	93.3575	4143
115	60.7539	9483	140	94.8670	3245
116	61.9652	4834	141	96.3876	5935
117	63.1898	3412	142	97.9192	9369
118	64.4276	9675	143	99.4618	0427
119	65.6787	7755	144	101.0150	5726
120	66.9430	1456	145	102.5789	1613
121	68.2203	4259	146	104.1532	4177
122	69.5106	9321	147	105.7378	9248
123	70.8139	9478	148	107.3327	2399
124	72.1301	7247	149	108.9375	8955
125	73.4591	4826	150	110.5523	3990

$$e = 32^c$$

θ	mean anomaly		θ	mean anomaly	
150	110.5523	3990	175	153.6510	8019
151	112.1768	2337	176	155.4632	8247
152	113.8108	8589	177	157.2805	5187
153	115.4543	7099	178	159.1026	8676
154	117.1071	1992	179	160.9294	8427
155	118.7689	7161	180	162.7607	4041
156	120.4397	6277	181	164.5962	5008
157	122.1193	2788	182	166.4358	0713
158	123.8074	9928	183	168.2792	0441
159	125.5041	0716	184	170.1262	3383
160	127.2089	7966	185	171.9766	8639
161	128.9219	4285	186	173.8303	5226
162	130.6428	2082	187	175.6870	2081
163	132.3714	3570	188	177.5464	8067
164	134.1076	0773	189	179.4085	1977
165	135.8511	5525	190	181.2729	2543
166	137.6018	9482	191	183.1394	8437
167	139.3596	4119	192	185.0079	8277
168	141.1242	0741	193	186.8782	0635
169	142.8954	0483	194	188.7499	4038
170	144.6730	4317	195	190.6229	6979
171	146.4569	3055	196	192.4970	7917
172	148.2468	7357	197	194.3720	5284
173	150.0426	7732	198	196.2476	7492
174	151.8441	4544	199	198.1237	2936
175	153.6510	8019	200	200.0000	0000

$$e = 33^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	3.8380	6553
1	0.1314	0421	26	4.0381	9834
2	0.2630	2273	27	4.2437	4991
3	0.3950	6982	28	4.4549	1624
4	0.5277	5964	29	4.6718	9197
5	0.6613	0618	30	4.8948	7029
6	0.7959	2323	31	5.1240	4293
7	0.9318	2431	32	5.3596	0007
8	1.0692	2262	33	5.6017	3034
9	1.2083	3100	34	5.8506	2071
10	1.3493	6185	35	6.1064	5653
11	1.4925	2712	36	6.3694	2139
12	1.6380	3822	37	6.6396	9716
13	1.7861	0597	38	6.9174	6387
14	1.9369	4059	39	7.2028	9974
15	2.0907	5158	40	7.4961	8107
16	2.2477	4774	41	7.7974	8222
17	2.4081	3706	42	8.1069	7561
18	2.5721	2671	43	8.4248	3158
19	2.7399	2295	44	8.7512	1847
20	2.9117	3112	45	9.0863	0246
21	3.0877	5557	46	9.4302	4762
22	3.2681	9960	47	9.7832	1582
23	3.4532	6542	48	10.1453	6670
24	3.6431	5410	49	10.5168	5765
25	3.8380	6553	50	10.8978	4374

$$e = 33^c$$

θ	mean anomaly		θ	mean anomaly	
50	10.8978	4374	75	23.9105	7079
51	11.2884	7770	76	24.5844	7634
52	11.6889	0989	77	25.2710	6791
53	12.0992	8823	78	25.9704	2282
54	12.5197	5821	79	26.6826	1524
55	12.9504	6282	80	27.4077	1620
56	13.3915	4252	81	28.1457	9352
57	13.8431	3523	82	28.8969	1182
58	14.3053	7624	83	29.6611	3252
59	14.7783	9825	84	30.4385	1378
60	15.2623	3127	85	31.2291	1054
61	15.7573	0265	86	32.0329	7446
62	16.2634	3699	87	32.8501	5393
63	16.7808	5614	88	33.6806	9407
64	17.3096	7917	89	34.5246	3669
65	17.8500	2234	90	35.3820	2029
66	18.4019	9906	91	36.2528	8005
67	18.9657	1987	92	37.1372	4785
68	19.5412	9243	93	38.0351	5222
69	20.1288	2144	94	38.9466	1833
70	20.7284	0869	95	39.8716	6805
71	21.3401	5296	96	40.8103	1985
72	21.9641	5006	97	41.7625	8888
73	22.6004	9276	98	42.7284	8692
74	23.2492	7078	99	43.7080	2238
75	23.9105	7079	100	44.7012	0030

$$e = 33^c$$

θ	mean anomaly		θ	mean anomaly	
100	44.7012	0030	125	73.9105	7079
101	45.7080	2238	126	75.2492	7078
102	46.7284	8692	127	76.6004	9276
103	47.7625	8888	128	77.9641	5006
104	48.8103	1985	129	79.3401	5296
105	49.8716	6805	130	80.7284	0869
106	50.9466	1833	131	82.1288	2144
107	52.0351	5222	132	83.5412	9243
108	53.1372	4785	133	84.9657	1987
109	54.2528	8005	134	86.4019	9906
110	55.3820	2029	135	87.8500	2234
111	56.5246	3669	136	89.3096	7917
112	57.6806	9407	137	90.7808	5614
113	58.8501	5393	138	92.2634	3699
114	60.0329	7446	139	93.7573	0265
115	61.2291	1054	140	95.2623	3127
116	62.4385	1378	141	96.7783	9825
117	63.6611	3252	142	98.3053	7624
118	64.8969	1182	143	99.8431	3523
119	66.1457	9352	144	101.3915	4252
120	67.4077	1620	145	102.9504	6282
121	68.6826	1524	146	104.5197	5821
122	69.9704	2282	147	106.0992	8823
123	71.2710	6791	148	107.6889	0989
124	72.5844	7634	149	109.2884	7770
125	73.9105	7079	150	110.8978	4374

$$e = 33^c$$

θ	mean anomaly		θ	mean anomaly	
150	110.8978	4374	175	153.8380	6553
151	112.5168	5765	176	155.6431	5410
152	114.1453	6670	177	157.4532	6542
153	115.7832	1582	178	159.2681	9960
154	117.4302	4762	179	161.0877	5557
155	119.0863	0246	180	162.9117	3112
156	120.7512	1847	181	164.7399	2295
157	122.4248	3158	182	166.5721	2671
158	124.1069	7561	183	168.4081	3706
159	125.7974	8222	184	170.2477	4774
160	127.4961	8107	185	172.0907	5158
161	129.2028	9974	186	173.9369	4059
162	130.9174	6387	187	175.7861	0597
163	132.6396	9716	188	177.6380	3822
164	134.3694	2139	189	179.4925	2712
165	136.1064	5653	190	181.3493	6185
166	137.8506	2071	191	183.2083	3100
167	139.6017	3034	192	185.0692	2262
168	141.3596	0007	193	186.9318	2431
169	143.1240	4293	194	188.7959	2323
170	144.8948	7029	195	190.6613	0618
171	146.6718	9197	196	192.5277	5964
172	148.4549	1624	197	194.3950	6982
173	150.2437	4991	198	196.2630	2273
174	152.0381	9834	199	198.1314	0421
175	153.8380	6553	200	200.0000	0000

$$e = 34^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	4.0302	7225
1	0.1392	9337	26	4.2376	6999
2	0.2787	9910	27	4.4504	3726
3	0.4187	2952	28	4.6687	6830
4	0.5592	9683	29	4.8928	5598
5	0.7007	1308	30	5.1228	9173
6	0.8431	9011	31	5.3590	6553
7	0.9869	3951	32	5.6015	6585
8	1.1321	7254	33	5.8505	7959
9	1.2791	0010	34	6.1062	9204
10	1.4279	3268	35	6.3688	8685
11	1.5788	8029	36	6.6385	4595
12	1.7321	5243	37	6.9154	4956
13	1.8879	5799	38	7.1997	7608
14	2.0465	0529	39	7.4917	0209
15	2.2080	0194	40	7.7914	0231
16	2.3726	5482	41	8.0990	4951
17	2.5406	7004	42	8.4148	1453
18	2.7122	5289	43	8.7388	6619
19	2.8876	0775	44	9.0713	7128
20	3.0669	3811	45	9.4124	9448
21	3.2504	4645	46	9.7623	9836
22	3.4383	3423	47	10.1212	4333
23	3.6308	0182	48	10.4891	8759
24	3.8280	4847	49	10.8663	8707
25	4.0302	7225	50	11.2529	9545

$$e = 34^c$$

θ	mean anomaly	θ	mean anomaly
50	11.2529 9545	75	24.3745 9886
51	11.6491 6408	76	25.0514 6622
52	12.0550 4194	77	25.7409 0437
53	12.4707 7561	78	26.4429 8994
54	12.8965 0927	79	27.1577 9643
55	13.3323 8460	80	27.8853 9420
56	13.7785 4079	81	28.6258 5047
57	14.2351 1449	82	29.3792 2928
58	14.7022 3979	83	30.1455 9148
59	15.1800 4816	84	30.9249 9472
60	15.6686 6845	85	31.7174 9341
61	16.1682 2683	86	32.5231 3877
62	16.6788 4678	87	33.3419 7875
63	17.2006 4905	88	34.1740 5803
64	17.7337 5162	89	35.0194 1807
65	18.2782 6970	90	35.8780 9700
66	18.8343 1566	91	36.7501 2970
67	19.4019 9906	92	37.6355 4775
68	19.9814 2654	93	38.5343 7941
69	20.5727 0189	94	39.4466 4965
70	21.1759 2595	95	40.3723 8011
71	21.7911 9663	96	41.3115 8912
72	22.4186 0883	97	42.2642 9168
73	23.0582 5451	98	43.2304 9945
74	23.7102 2256	99	44.2102 2078
75	24.3745 9886	100	45.2034 6067

$$e = 34^c$$

θ	mean anomaly		θ	mean anomaly	
100	45.2034	6067	125	74.3745	9886
101	46.2102	2078	126	75.7102	2256
102	47.2304	9945	127	77.0582	5451
103	48.2642	9168	128	78.4186	0883
104	49.3115	8912	129	79.7911	9663
105	50.3723	8011	130	81.1759	2595
106	51.4466	4965	131	82.5727	0189
107	52.5343	7941	132	83.9814	2654
108	53.6355	4775	133	85.4019	9906
109	54.7501	2970	134	86.8343	1566
110	55.8780	9700	135	88.2782	6970
111	57.0194	1807	136	89.7337	5162
112	58.1740	5803	137	91.2006	4905
113	59.3419	7875	138	92.6788	4678
114	60.5231	3877	139	94.1682	2683
115	61.7174	9341	140	95.6686	6845
116	62.9249	9472	141	97.1800	4816
117	64.1455	9148	142	98.7022	3979
118	65.3792	2928	143	100.2351	1449
119	66.6258	5047	144	101.7785	4079
120	67.8853	9420	145	103.3323	8460
121	69.1577	9643	146	104.8965	0927
122	70.4429	8994	147	106.4707	7561
123	71.7409	0437	148	108.0550	4194
124	73.0514	6622	149	109.6491	6408
125	74.3745	9886	150	111.2529	9545

$$e = 34^c$$

θ	mean anomaly		θ	mean anomaly	
150	111.2529	9545	175	154.0302	7225
151	112.8663	8707	176	155.8280	4847
152	114.4891	8759	177	157.6308	0182
153	116.1212	4333	178	159.4383	3423
154	117.7623	9836	179	161.2504	4645
155	119.4124	9448	180	163.0669	3811
156	121.0713	7128	181	164.8876	0775
157	122.7388	6619	182	166.7122	5289
158	124.4148	1453	183	168.5406	7004
159	126.0990	4951	184	170.3726	5482
160	127.7914	0231	185	172.2080	0194
161	129.4917	0209	186	174.0465	0529
162	131.1997	7608	187	175.8879	5799
163	132.9154	4956	188	177.7321	5243
164	134.6385	4595	189	179.5788	8029
165	136.3688	8685	190	181.4279	3268
166	138.1062	9204	191	183.2791	0010
167	139.8505	7959	192	185.1321	7254
168	141.6015	6585	193	186.9869	3951
169	143.3590	6553	194	188.8431	9011
170	145.1228	9173	195	190.7007	1308
171	146.8928	5598	196	192.5592	9683
172	148.6687	6830	197	194.4187	2952
173	150.4504	3726	198	196.2787	9910
174	152.2376	6999	199	198.1392	9337
175	154.0302	7225	200	200.0000	0000

$$e = 35^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	4.2276	5294
1	0.1473	9490	26	4.4425	1117
2	0.2950	0016	27	4.6626	8838
3	0.4430	2611	28	4.8883	7700
4	0.5916	8296	29	5.1197	6806
5	0.7411	8075	30	5.3570	5122
6	0.8917	2935	31	5.6004	1465
7	1.0435	3833	32	5.8500	4505
8	1.1968	1699	33	6.1061	2756
9	1.3517	7422	34	6.3688	4573
10	1.5086	1855	35	6.6383	8147
11	1.6675	5799	36	6.9149	1502
12	1.8288	0007	37	7.1986	2488
13	1.9925	5175	38	7.4896	8778
14	2.1590	1934	39	7.7882	7864
15	2.3284	0853	40	8.0945	7053
16	2.5009	2424	41	8.4087	3461
17	2.6767	7064	42	8.7309	4009
18	2.8561	5108	43	9.0613	5422
19	3.0392	6805	44	9.4001	4220
20	3.2263	2308	45	9.7474	6718
21	3.4175	1677	46	10.1034	9019
22	3.6130	4868	47	10.4683	7013
23	3.8131	1729	48	10.8422	6370
24	4.0179	1997	49	11.2253	2539
25	4.2276	5294	50	11.6177	0741

$$e = 35^c$$

θ	mean anomaly		θ	mean anomaly	
50	11.6177	0741	75	24.8511	1800
51	12.0195	5969	76	25.5310	2689
52	12.4310	2981	77	26.2233	8825
53	12.8522	6298	78	26.9282	7798
54	13.2834	0201	79	27.6457	6890
55	13.7245	8724	80	28.3759	3070
56	14.1759	5657	81	29.1188	2996
57	14.6376	4535	82	29.8745	3013
58	15.1097	8641	83	30.6430	9148
59	15.5925	0999	84	31.4245	7112
60	16.0859	4372	85	32.2190	2295
61	16.5902	1258	86	33.0264	9770
62	17.1054	3889	87	33.8470	4287
63	17.6317	4227	88	34.6807	0274
64	18.1692	3958	89	35.5275	1834
65	18.7180	4495	90	36.3875	2748
66	19.2782	6970	91	37.2607	6469
67	19.8500	2234	92	38.1472	6126
68	20.4334	0852	93	39.0470	4519
69	21.0285	3106	94	39.9601	4119
70	21.6354	8983	95	40.8865	7073
71	22.2543	8182	96	41.8263	5194
72	22.8853	0107	97	42.7794	9970
73	23.5283	3863	98	43.7460	2554
74	24.1835	8259	99	44.7259	3775
75	24.8511	1800	100	45.7192	4127

$$e = 35^c$$

θ	mean anomaly		θ	mean anomaly	
100	45.7192	4127	125	74.8511	1800
101	46.7259	3775	126	76.1835	8259
102	47.7460	2554	127	77.5283	3863
103	48.7794	9970	128	78.8853	0107
104	49.8263	5194	129	80.2543	8182
105	50.8865	7073	130	81.6354	8983
106	51.9601	4119	131	83.0285	3106
107	53.0470	4519	132	84.4334	0852
108	54.1472	6126	133	85.8500	2234
109	55.2607	6469	134	87.2782	6970
110	56.3875	2748	135	88.7180	4495
111	57.5275	1834	136	90.1692	3958
112	58.6807	0274	137	91.6317	4227
113	59.8470	4287	138	93.1054	3889
114	61.0264	9770	139	94.5902	1258
115	62.2190	2295	140	96.0859	4372
116	63.4245	7112	141	97.5925	0999
117	64.6430	9148	142	99.1097	8641
118	65.8745	3013	143	100.6376	4535
119	67.1188	2996	144	102.1759	5657
120	68.3759	3070	145	103.7245	8724
121	69.6457	6890	146	105.2834	0201
122	70.9282	7798	147	106.8522	6298
123	72.2233	8825	148	108.4310	2981
124	73.5310	2689	149	110.0195	5969
125	74.8511	1800	150	111.6177	0741

$$e = 35^c$$

θ	mean anomaly		θ	mean anomaly	
150	111.6177	0741	175	154.2276	5294
151	113.2253	2539	176	156.0179	1997
152	114.8422	6370	177	157.8131	1729
153	116.4683	7013	178	159.6130	4868
154	118.1034	9019	179	161.4175	1677
155	119.7474	6718	180	163.2263	2308
156	121.4001	4220	181	165.0392	6805
157	123.0613	5422	182	166.8561	5108
158	124.7309	4009	183	168.6767	7064
159	126.4087	3461	184	170.5009	2424
160	128.0945	7053	185	172.3284	0853
161	129.7882	7864	186	174.1590	1934
162	131.4896	8778	187	175.9925	5175
163	133.1986	2488	188	177.8288	0007
164	134.9149	1502	189	179.6675	5799
165	136.6383	8147	190	181.5086	1855
166	138.3688	4573	191	183.3517	7422
167	140.1061	2756	192	185.1968	1699
168	141.8500	4505	193	187.0435	3833
169	143.6004	1465	194	188.8917	2935
170	145.3570	5122	195	190.7411	8075
171	147.1197	6806	196	192.5916	8296
172	148.8883	7700	197	194.4430	2611
173	150.6626	8838	198	196.2950	0016
174	152.4425	1117	199	198.1473	9490
175	154.2276	5294	200	200.0000	0000

$$e = 36^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	4.4301	5889
1	0.1557	0680	26	4.6526	7133
2	0.3116	2191	27	4.8804	5090
3	0.4679	5360	28	5.1136	8814
4	0.6249	1004	29	5.3525	7224
5	0.7826	9923	30	5.5972	9099
6	0.9415	2898	31	5.8480	3073
7	1.1016	0683	32	6.1049	7635
8	1.2631	4002	33	6.3683	1118
9	1.4263	3543	34	6.6382	1698
10	1.5913	9953	35	6.9148	7390
11	1.7585	3832	36	7.1984	6039
12	1.9279	5731	37	7.4891	5324
13	2.0998	6142	38	7.7871	2744
14	2.2744	5498	39	8.0925	5622
15	2.4519	4164	40	8.4056	1095
16	2.6325	2435	41	8.7264	6112
17	2.8164	0528	42	9.0552	7430
18	3.0037	8580	43	9.3922	1610
19	3.1948	6641	44	9.7374	5012
20	3.3898	4671	45	10.0911	3791
21	3.5889	2531	46	10.4534	3894
22	3.7922	9983	47	10.8245	1056
23	4.0001	6683	48	11.2045	0793
24	4.2127	2175	49	11.5935	8404
25	4.4301	5889	50	11.9918	8962

$$e = 36^c$$

θ	mean anomaly		θ	mean anomaly	
50	11.9918	8962	75	25.3400	1062
51	12.3995	7314	76	26.0230	4003
52	12.8167	8073	77	26.7184	0050
53	13.2436	5620	78	27.4261	6721
54	13.6803	4095	79	28.1464	1225
55	14.1269	7397	80	28.8792	0466
56	14.5836	9180	81	29.6246	1036
57	15.0506	2849	82	30.3826	9216
58	15.5279	1555	83	31.1535	0977
59	16.0156	8197	84	31.9371	1972
60	16.5140	5412	85	32.7335	7540
61	17.0231	5578	86	33.5429	2705
62	17.5431	0807	87	34.3652	2169
63	18.0740	2943	88	35.2005	0318
64	18.6160	3560	89	36.0488	1215
65	19.1692	3958	90	36.9101	8604
66	19.7337	5162	91	37.7846	5904
67	20.3096	7917	92	38.6722	6213
68	20.8971	2685	93	39.5730	2304
69	21.4961	9646	94	40.4869	6626
70	22.1069	8692	95	41.4141	1302
71	22.7295	9427	96	42.3544	8130
72	23.3641	1162	97	43.3080	8581
73	24.0106	2915	98	44.2749	3799
74	24.6692	3407	99	45.2550	4603
75	25.3400	1062	100	46.2484	1483

$$e = 36^c$$

θ	mean anomaly		θ	mean anomaly	
100	46.2484	1483	125	75.3400	1062
101	47.2550	4603	126	76.6692	3407
102	48.2749	3799	127	78.0106	2915
103	49.3080	8581	128	79.3641	1162
104	50.3544	8130	129	80.7295	9427
105	51.4141	1302	130	82.1069	8692
106	52.4869	6626	131	83.4961	9646
107	53.5730	2304	132	84.8971	2685
108	54.6722	6213	133	86.3096	7917
109	55.7846	5904	134	87.7337	5162
110	56.9101	8604	135	89.1692	3958
111	58.0488	1215	136	90.6160	3560
112	59.2005	0318	137	92.0740	2943
113	60.3652	2169	138	93.5431	0807
114	61.5429	2705	139	95.0231	5578
115	62.7335	7540	140	96.5140	5412
116	63.9371	1972	141	98.0156	8197
117	65.1535	0977	142	99.5279	1555
118	66.3826	9216	143	101.0506	2849
119	67.6246	1036	144	102.5836	9180
120	68.8792	0466	145	104.1269	7397
121	70.1464	1225	146	105.6803	4095
122	71.4261	6721	147	107.2436	5620
123	72.7184	0050	148	108.8167	8073
124	74.0230	4003	149	110.3995	7314
125	75.3400	1062	150	111.9918	8962

$$e = 36^c$$

θ	mean anomaly		θ	mean anomaly	
150	111.9918	8962	175	154.4301	5889
151	113.5935	8404	176	156.2127	2175
152	115.2045	0793	177	158.0001	6683
153	116.8245	1056	178	159.7922	9983
154	118.4534	3894	179	161.5889	2531
155	120.0911	3791	180	163.3898	4671
156	121.7374	5012	181	165.1948	6641
157	123.3922	1610	182	167.0037	8580
158	125.0552	7430	183	168.8164	0528
159	126.7264	6112	184	170.6325	2435
160	128.4056	1095	185	172.4519	4164
161	130.0925	5622	186	174.2744	5498
162	131.7871	2744	187	176.0998	6142
163	133.4891	5324	188	177.9279	5731
164	135.1984	6039	189	179.7585	3832
165	136.9148	7390	190	181.5913	9953
166	138.6382	1698	191	183.4263	3543
167	140.3683	1118	192	185.2631	4002
168	142.1049	7635	193	187.1016	0683
169	143.8480	3073	194	188.9415	2898
170	145.5972	9099	195	190.7826	9923
171	147.3525	7224	196	192.6249	1004
172	149.1136	8814	197	194.4679	5360
173	150.8804	5090	198	196.3116	2191
174	152.6526	7133	199	198.1557	0680
175	154.4301	5889	200	200.0000	0000

$$e = 37^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	4.6377	4015
1	0.1642	2701	26	4.8680	9863
2	0.3286	6023	27	5.1036	7109
3	0.4935	0584	28	5.3446	4614
4	0.6589	6988	29	5.5912	1107
5	0.8252	5827	30	5.8435	5176
6	0.9925	7671	31	6.1018	5269
7	1.1611	3067	32	6.3662	9687
8	1.3311	2527	33	6.6370	6578
9	1.5027	6533	34	6.9143	3935
10	1.6762	5521	35	7.1982	9591
11	1.8517	9885	36	7.4891	1211
12	2.0295	9967	37	7.7869	6296
13	2.2098	6054	38	8.0920	2168
14	2.3927	8372	39	8.4044	5975
15	2.5785	7080	40	8.7244	4681
16	2.7674	2269	41	9.0521	5064
17	2.9595	3951	42	9.3877	3713
18	3.1551	2061	43	9.7313	7020
19	3.3543	6446	44	10.0832	1182
20	3.5574	6864	45	10.4434	2189
21	3.7646	2976	46	10.8121	5828
22	3.9760	4346	47	11.1895	7675
23	4.1919	0429	48	11.5758	3090
24	4.4124	0575	49	11.9710	7217
25	4.6377	4015	50	12.3754	4977

$$e = 37^c$$

θ	mean anomaly		θ	mean anomaly	
50	12.3754	4977	75	25.8411	5610
51	12.7891	1067	76	26.5273	8423
52	13.2121	9953	77	27.2258	1898
53	13.6448	5870	78	27.9365	3477
54	14.0872	2817	79	28.6596	0297
55	14.5394	4551	80	29.3950	9191
56	15.0016	4589	81	30.1430	6686
57	15.4739	6200	82	30.9035	8999
58	15.9565	2404	83	31.6767	2040
59	16.4494	5968	84	32.4625	1405
60	16.9528	9403	85	33.2610	2381
61	17.4669	4961	86	34.0722	9939
62	17.9917	4631	87	34.8963	8736
63	18.5274	0140	88	35.7333	3111
64	19.0740	2943	89	36.5831	7087
65	19.6317	4227	90	37.4459	4371
66	20.2006	4905	91	38.3216	8347
67	20.7808	5614	92	39.2104	2082
68	21.3724	6710	93	40.1121	8321
69	21.9755	8272	94	41.0269	9487
70	22.5903	0090	95	41.9548	7684
71	23.2167	1672	96	42.8958	4689
72	23.8549	2235	97	43.8499	1960
73	24.5050	0706	98	44.8171	0629
74	25.1670	5718	99	45.7974	1507
75	25.8411	5610	100	46.7908	5079

$$e = 37^c$$

θ	mean anomaly		θ	mean anomaly	
100	46.7908	5079	125	75.8411	5610
101	47.7974	1507	126	77.1670	5718
102	48.8171	0629	127	78.5050	0706
103	49.8499	1960	128	79.8549	2235
104	50.8958	4689	129	81.2167	1672
105	51.9548	7684	130	82.5903	0090
106	53.0269	9487	131	83.9755	8272
107	54.1121	8321	132	85.3724	6710
108	55.2104	2082	133	86.7808	5614
109	56.3216	8347	134	88.2006	4905
110	57.4459	4371	135	89.6317	4227
111	58.5831	7087	136	91.0740	2943
112	59.7333	3111	137	92.5274	0140
113	60.8963	8736	138	93.9917	4631
114	62.0722	9939	139	95.4669	4961
115	63.2610	2381	140	96.9528	9403
116	64.4625	1405	141	98.4494	5968
117	65.6767	2040	142	99.9565	2404
118	66.9035	8999	143	101.4739	6200
119	68.1430	6686	144	103.0016	4589
120	69.3950	9191	145	104.5394	4551
121	70.6596	0297	146	106.0872	2817
122	71.9365	3477	147	107.6448	5870
123	73.2258	1898	148	109.2121	9953
124	74.5273	8423	149	110.7891	1067
125	75.8411	5610	150	112.3754	4977

$$e = 37^c$$

θ	mean anomaly		θ	mean anomaly	
150	112.3754	4977	175	154.6377	4015
151	113.9710	7217	176	156.4124	0575
152	115.5758	3090	177	158.1919	0429
153	117.1895	7675	178	159.9760	4346
154	118.8121	5828	179	161.7646	2976
155	120.4434	2189	180	163.5574	6864
156	122.0832	1182	181	165.3543	6446
157	123.7313	7020	182	167.1551	2061
158	125.3877	3713	183	168.9595	3951
159	127.0521	5064	184	170.7674	2269
160	128.7244	4681	185	172.5785	7080
161	130.4044	5975	186	174.3927	8372
162	132.0920	2168	187	176.2098	6054
163	133.7869	6296	188	178.0295	9967
164	135.4891	1211	189	179.8517	9885
165	137.1982	9591	190	181.6762	5521
166	138.9143	3935	191	183.5027	6533
167	140.6370	6578	192	185.3311	2527
168	142.3662	9687	193	187.1611	3067
169	144.1018	5269	194	188.9925	7671
170	145.8435	5176	195	190.8252	5827
171	147.5912	1107	196	192.6589	6988
172	149.3446	4614	197	194.4935	0584
173	151.1036	7109	198	196.3286	6023
174	152.8680	9863	199	198.1642	2701
175	154.6377	4015	200	200.0000	0000

$$e = 38^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	4.8503	4548
1	0.1729	5344	26	5.0887	3991
2	0.3461	1094	27	5.3322	9387
3	0.5196	7651	28	5.5811	9401
4	0.6938	5406	29	5.8356	2566
5	0.8688	4736	30	6.0957	7277
6	1.0448	5995	31	6.3618	1789
7	1.2220	9516	32	6.6339	4212
8	1.4007	5597	33	6.9123	2504
9	1.5810	4505	34	7.1971	4470
10	1.7631	6465	35	7.4885	7757
11	1.9473	1656	36	7.7867	9847
12	2.1337	0208	37	8.0919	8055
13	2.3225	2197	38	8.4042	9526
14	2.5139	7636	39	8.7239	1226
15	2.7082	6476	40	9.0509	9944
16	2.9055	8596	41	9.3857	2281
17	3.1061	3802	42	9.7282	4654
18	3.3101	1817	43	10.0787	3284
19	3.5177	2283	44	10.4373	4197
20	3.7291	4752	45	10.8042	3218
21	3.9445	8679	46	11.1795	5969
22	4.1642	3423	47	11.5634	7862
23	4.3882	8238	48	11.9561	4098
24	4.6169	2269	49	12.3576	9663
25	4.8503	4548	50	12.7682	9321

$$e = 38^c$$

θ	mean anomaly		θ	mean anomaly	
50	12.7682	9321	75	26.3544	3079
51	13.1880	7616	76	27.0439	3506
52	13.6171	8864	77	27.7455	1850
53	14.0557	7150	78	28.4592	5475
54	14.5039	6327	79	29.1852	1443
55	14.9619	0009	80	29.9234	6517
56	15.4297	1571	81	30.6740	7155
57	15.9075	4145	82	31.4370	9509
58	16.3955	0614	83	32.2125	9428
59	16.8937	3611	84	33.0006	2449
60	17.4023	5517	85	33.8012	3804
61	17.9214	8456	86	34.6144	8412
62	18.4512	4293	87	35.4404	0881
63	18.9917	4631	88	36.2790	5505
64	19.5431	0807	89	37.1304	6266
65	20.1054	3889	90	37.9946	6831
66	20.6788	4678	91	38.8717	0549
67	21.2634	3699	92	39.7616	0455
68	21.8593	1201	93	40.6643	9265
69	22.4665	7155	94	41.5800	9378
70	23.0853	1252	95	42.5087	2874
71	23.7156	2898	96	43.4503	1513
72	24.3576	1216	97	44.4048	6737
73	25.0113	5038	98	45.3723	9667
74	25.6769	2909	99	46.3529	1105
75	26.3544	3079	100	47.3464	1531

$$e = 38^c$$

θ	mean anomaly		θ	mean anomaly	
100	47.3464	1531	125	76.3544	3079
101	48.3529	1105	126	77.6769	2909
102	49.3723	9667	127	79.0113	5038
103	50.4048	6737	128	80.3576	1216
104	51.4503	1513	129	81.7156	2898
105	52.5087	2874	130	83.0853	1252
106	53.5800	9378	131	84.4665	7155
107	54.6643	9265	132	85.8593	1201
108	55.7616	0455	133	87.2634	3699
109	56.8717	0549	134	88.6788	4678
110	57.9946	6831	135	90.1054	3889
111	59.1304	6266	136	91.5431	0807
112	60.2790	5505	137	92.9917	4631
113	61.4404	0881	138	94.4512	4293
114	62.6144	8412	139	95.9214	8456
115	63.8012	3804	140	97.4023	5517
116	65.0006	2449	141	98.8937	3611
117	66.2125	9428	142	100.3955	0614
118	67.4370	9509	143	101.9075	4145
119	68.6740	7155	144	103.4297	1571
120	69.9234	6517	145	104.9619	0009
121	71.1852	1443	146	106.5039	6327
122	72.4592	5475	147	108.0557	7150
123	73.7455	1850	148	109.6171	8864
124	75.0439	3506	149	111.1880	7616
125	76.3544	3079	150	112.7682	9321

$$e = 38^c$$

θ	mean anomaly		θ	mean anomaly	
150	112.7682	9321	175	154.8503	4548
151	114.3576	9663	176	156.6169	2269
152	115.9561	4098	177	158.3882	8238
153	117.5634	7862	178	160.1642	3423
154	119.1795	5969	179	161.9445	8679
155	120.8042	3218	180	163.7291	4752
156	122.4373	4197	181	165.5177	2283
157	124.0787	3284	182	167.3101	1817
158	125.7282	4654	183	169.1061	3802
159	127.3857	2281	184	170.9055	8596
160	129.0509	9944	185	172.7082	6476
161	130.7239	1226	186	174.5139	7636
162	132.4042	9526	187	176.3225	2197
163	134.0919	8055	188	178.1337	0208
164	135.7867	9847	189	179.9473	1656
165	137.4885	7757	190	181.7631	6465
166	139.1971	4470	191	183.5810	4505
167	140.9123	2504	192	185.4007	5597
168	142.6339	4212	193	187.2220	9516
169	144.3618	1789	194	189.0448	5995
170	146.0957	7277	195	190.8688	4736
171	147.8356	2566	196	192.6938	5406
172	149.5811	9401	197	194.5196	7651
173	151.3322	9387	198	196.3461	1094
174	153.0887	3991	199	198.1729	5344
175	154.8503	4548	200	200.0000	0000

$$e = 39^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	5.0679	2245
1	0.1818	8393	26	5.3145	4072
2	0.3639	6971	27	5.5662	6283
3	0.5464	5916	28	5.8232	7338
4	0.7295	5399	29	6.0857	5572
5	0.9134	5575	30	6.3538	9180
6	1.0983	6580	31	6.6278	6220
7	1.2844	8526	32	6.9078	4606
8	1.4720	1493	33	7.1940	2104
9	1.6611	5529	34	7.4865	6326
10	1.8521	0640	35	7.7856	4727
11	2.0450	6788	36	8.0914	4601
12	2.2402	3885	37	8.4041	3077
13	2.4378	1790	38	8.7238	7114
14	2.6380	0301	39	9.0508	3495
15	2.8409	9153	40	9.3851	8827
16	3.0469	8009	41	9.7270	9534
17	3.2561	6462	42	10.0767	1853
18	3.4687	4024	43	10.4342	1831
19	3.6849	0123	44	10.7997	5321
20	3.9048	4098	45	11.1734	7977
21	4.1287	5198	46	11.5555	5252
22	4.3568	2571	47	11.9461	2393
23	4.5892	5262	48	12.3453	4435
24	4.8262	2211	49	12.7533	6203
25	5.0679	2245	50	13.1703	2302

$$e = 39^c$$

θ	mean anomaly		θ	mean anomaly	
50	13.1703	2302	75	26.8797	0805
51	13.5963	7118	76	27.5725	6506
52	14.0316	4813	77	28.2773	7082
53	14.4762	9320	78	28.9941	9816
54	14.9304	4342	79	29.7231	1695
55	15.3942	3347	80	30.4641	9407
56	15.8677	9565	81	31.2174	9341
57	16.3512	5985	82	31.9830	7583
58	16.8447	5351	83	32.7609	9919
59	17.3484	0162	84	33.5513	1827
60	17.8623	2664	85	34.3540	8480
61	18.3866	4850	86	35.1693	4746
62	18.9214	8456	87	35.9971	5182
63	19.4669	4961	88	36.8375	4037
64	20.0231	5578	89	37.6905	5249
65	20.5902	1258	90	38.5562	2445
66	21.1682	2683	91	39.4345	8939
67	21.7573	0265	92	40.3256	7732
68	22.3575	4143	93	41.2295	1512
69	22.9690	4180	94	42.1461	2651
70	23.5918	9963	95	43.0755	3207
71	24.2262	0795	96	44.0177	4922
72	24.8720	5702	97	44.9727	9221
73	25.5295	3419	98	45.9406	7213
74	26.1987	2399	99	46.9213	9691
75	26.8797	0805	100	47.9149	7131

$$e = 39^c$$

θ	mean anomaly		θ	mean anomaly	
100	47.9149	7131	125	76.8797	0805
101	48.9213	9691	126	78.1987	2399
102	49.9406	7213	127	79.5295	3419
103	50.9727	9221	128	80.8720	5702
104	52.0177	4922	129	82.2262	0795
105	53.0755	3207	130	83.5918	9963
106	54.1461	2651	131	84.9690	4180
107	55.2295	1512	132	86.3575	4143
108	56.3256	7732	133	87.7573	0265
109	57.4345	8939	134	89.1682	2683
110	58.5562	2445	135	90.5902	1258
111	59.6905	5249	136	92.0231	5578
112	60.8375	4037	137	93.4669	4961
113	61.9971	5182	138	94.9214	8456
114	63.1693	4746	139	96.3866	4850
115	64.3540	8480	140	97.8623	2664
116	65.5513	1827	141	99.3484	0162
117	66.7609	9919	142	100.8447	5351
118	67.9830	7583	143	102.3512	5985
119	69.2174	9341	144	103.8677	9565
120	70.4641	9407	145	105.3942	3347
121	71.7231	1695	146	106.9304	4342
122	72.9941	9816	147	108.4762	9320
123	74.2773	7082	148	110.0316	4813
124	75.5725	6506	149	111.5963	7118
125	76.8797	0805	150	113.1703	2302

$$e = 39^c$$

θ	mean anomaly		θ	mean anomaly	
150	113.1703	2302	175	155.0679	2245
151	114.7533	6203	176	156.8262	2211
152	116.3453	4435	177	158.5892	5262
153	117.9461	2393	178	160.3568	2571
154	119.5555	5252	179	162.1287	5198
155	121.1734	7977	180	163.9048	4098
156	122.7997	5321	181	165.6849	0123
157	124.4342	1831	182	167.4687	4024
158	126.0767	1853	183	169.2561	6462
159	127.7270	9534	184	171.0469	8009
160	129.3851	8827	185	172.8409	9153
161	131.0508	3495	186	174.6380	0301
162	132.7238	7114	187	176.4378	1790
163	134.4041	3077	188	178.2402	3885
164	136.0914	4601	189	180.0450	6788
165	137.7856	4727	190	181.8521	0640
166	139.4865	6326	191	183.6611	5529
167	141.1940	2104	192	185.4720	1493
168	142.9078	4606	193	187.2844	8526
169	144.6278	6220	194	189.0983	6580
170	146.3538	9180	195	190.9134	5575
171	148.0857	5572	196	192.7295	5399
172	149.8232	7338	197	194.5464	5916
173	151.5662	6283	198	196.3639	6971
174	153.3145	4072	199	198.1818	8393
175	155.0679	2245	200	200.0000	0000

$$e = 40^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	5.2904	1735
1	0.1910	1627	26	5.5454	4537
2	0.3822	3215	27	5.8055	2024
3	0.5738	4719	28	6.0708	2453
4	0.7660	6085	29	6.3415	3952
5	0.9590	7243	30	6.6178	4515
6	1.1530	8105	31	6.8999	1997
7	1.3482	8558	32	7.1879	4112
8	1.5448	8458	33	7.4820	8428
9	1.7430	7628	34	7.7825	2361
10	1.9430	5853	35	8.0894	3170
11	2.1450	2870	36	8.4029	7957
12	2.3491	8370	37	8.7233	3660
13	2.5557	1990	38	9.0506	7047
14	2.7648	3307	39	9.3851	4715
15	2.9767	1834	40	9.7269	3085
16	3.1915	7019	41	10.0761	8399
17	3.4095	8232	42	10.4330	6711
18	3.6309	4768	43	10.7977	3889
19	3.8558	5839	44	11.1703	5611
20	4.0845	0569	45	11.5510	7355
21	4.3170	7990	46	11.9400	4401
22	4.5537	7037	47	12.3374	1825
23	4.7947	6544	48	12.7433	4497
24	5.0402	5238	49	13.1579	7074
25	5.2904	1735	50	13.5814	4000

$$e = 40^c$$

θ	mean anomaly		θ	mean anomaly	
50	13.5814	4000	75	27.4168	5826
51	14.0138	9499	76	28.1131	4381
52	14.4554	7574	77	28.8212	4472
53	14.9063	2005	78	29.5412	3302
54	15.3665	6340	79	30.2731	7779
55	15.8363	3898	80	31.0171	4518
56	16.3157	7760	81	31.7731	9835
57	16.8050	0771	82	32.5413	9750
58	17.3041	5533	83	33.3217	9982
59	17.8133	4405	84	34.1144	5950
60	18.3326	9495	85	34.9194	2768
61	18.8623	2664	86	35.7367	5250
62	19.4023	5517	87	36.5664	7902
63	19.9528	9403	88	37.4086	4925
64	20.5140	5412	89	38.2633	0215
65	21.0859	4372	90	39.1304	7357
66	21.6686	6845	91	40.0101	9628
67	22.2623	3127	92	40.9024	9996
68	22.8670	3245	93	41.8074	1118
69	23.4828	6951	94	42.7249	5342
70	24.1099	3724	95	43.6551	4700
71	24.7483	2766	96	44.5980	0915
72	25.3981	2998	97	45.5535	5398
73	26.0594	3062	98	46.5217	9245
74	26.7323	1315	99	47.5027	3239
75	27.4168	5826	100	48.4963	7852

$$e = 40^c$$

θ	mean anomaly		θ	mean anomaly	
100	48.4963	7852	125	77.4168	5826
101	49.5027	3239	126	78.7323	1315
102	50.5217	9245	127	80.0594	3062
103	51.5535	5398	128	81.3981	2998
104	52.5980	0915	129	82.7483	2766
105	53.6551	4700	130	84.1099	3724
106	54.7249	5342	131	85.4828	6951
107	55.8074	1118	132	86.8670	3245
108	56.9024	9996	133	88.2623	3127
109	58.0101	9628	134	89.6686	6845
110	59.1304	7357	135	91.0859	4372
111	60.2633	0215	136	92.5140	5412
112	61.4086	4925	137	93.9528	9403
113	62.5664	7902	138	95.4023	5517
114	63.7367	5250	139	96.8623	2664
115	64.9194	2768	140	98.3326	9495
116	66.1144	5950	141	99.8133	4405
117	67.3217	9982	142	101.3041	5533
118	68.5413	9750	143	102.8050	0771
119	69.7731	9835	144	104.3157	7760
120	71.0171	4518	145	105.8363	3898
121	72.2731	7779	146	107.3665	6340
122	73.5412	3302	147	108.9063	2005
123	74.8212	4472	148	110.4554	7574
124	76.1131	4381	149	112.0138	9499
125	77.4168	5826	150	113.5814	4000

$$e = 40^c$$

θ	mean anomaly		θ	mean anomaly	
150	113.5814	4000	175	155.2904	1735
151	115.1579	7074	176	157.0402	5238
152	116.7433	4497	177	158.7947	6544
153	118.3374	1825	178	160.5537	7037
154	119.9400	4401	179	162.3170	7990
155	121.5510	7355	180	164.0845	0569
156	123.1703	5611	181	165.8558	5839
157	124.7977	3889	182	167.6309	4768
158	126.4330	6711	183	169.4095	8232
159	128.0761	8399	184	171.1915	7019
160	129.7269	3085	185	172.9767	1834
161	131.3851	4715	186	174.7648	3307
162	133.0506	7047	187	176.5557	1990
163	134.7233	3660	188	178.3491	8370
164	136.4029	7957	189	180.1450	2870
165	138.0894	3170	190	181.9430	5853
166	139.7825	2361	191	183.7430	7628
167	141.4820	8428	192	185.5448	8458
168	143.1879	4112	193	187.3482	8558
169	144.8999	1997	194	189.1530	8105
170	146.6178	4515	195	190.9590	7243
171	148.3415	3952	196	192.7660	6085
172	150.0708	2453	197	194.5738	4719
173	151.8055	2024	198	196.3822	3215
174	153.5454	4537	199	198.1910	1627
175	155.2904	1735	200	200.0000	0000

$$e = 41^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	5.5177	7530
1	0.2003	4823	26	5.7813	9687
2	0.4008	9376	27	6.0500	0708
3	0.6018	3384	28	6.3237	8638
4	0.8033	6564	29	6.6029	1396
5	1.0056	8615	30	6.8875	6769
6	1.2089	9221	31	7.1779	2407
7	1.4134	8037	32	7.4741	5818
8	1.6193	4693	33	7.7764	4369
9	1.8267	8781	34	8.0849	5272
10	2.0359	9858	35	8.3998	5591
11	2.2471	7435	36	8.7213	2228
12	2.4605	0974	37	9.0495	1926
13	2.6761	9886	38	9.3846	1261
14	2.8944	3523	39	9.7267	6637
15	3.1154	1173	40	10.0761	4286
16	3.3393	2057	41	10.4329	0262
17	3.5663	5324	42	10.7972	0435
18	3.7967	0047	43	11.1692	0491
19	4.0305	5214	44	11.5490	5923
20	4.2680	9731	45	11.9369	2035
21	4.5095	2408	46	12.3329	3928
22	4.7550	1964	47	12.7372	6505
23	5.0047	7013	48	13.1500	4464
24	5.2589	6068	49	13.5714	2294
25	5.5177	7530	50	14.0015	4271

$$e = 41^c$$

θ	mean anomaly		θ	mean anomaly	
50	14.0015	4271	75	27.9657	4891
51	14.4405	4456	76	28.6655	3792
52	14.8885	6691	77	29.3770	0601
53	15.3457	4594	78	30.1002	2435
54	15.8122	1561	79	30.8352	6125
55	16.2881	0753	80	31.5821	8208
56	16.7735	5104	81	32.3410	4928
57	17.2686	7309	82	33.1119	2234
58	17.7735	9824	83	33.8948	5781
59	18.2884	4866	84	34.6899	0924
60	18.8133	4405	85	35.4971	2719
61	19.3484	0162	86	36.3165	5924
62	19.8937	3611	87	37.1482	4993
63	20.4494	5968	88	37.9922	4080
64	21.0156	8197	89	38.8485	7033
65	21.5925	0999	90	39.7172	7398
66	22.1800	4816	91	40.5983	8414
67	22.7783	9825	92	41.4919	3014
68	23.3876	5935	93	42.3979	3825
69	24.0079	2789	94	43.3164	3167
70	24.6392	9754	95	44.2474	3049
71	25.2818	5927	96	45.1909	5176
72	25.9357	0127	97	46.1470	0939
73	26.6009	0894	98	47.1156	1424
74	27.2775	6490	99	48.0967	7405
75	27.9657	4891	100	49.0904	9347

$$e = 41^c$$

θ	mean anomaly		θ	mean anomaly	
100	49.0904	9347	125	77.9657	4891
101	50.0967	7405	126	79.2775	6490
102	51.1156	1424	127	80.6009	0894
103	52.1470	0939	128	81.9357	0127
104	53.1909	5176	129	83.2818	5927
105	54.2474	3049	130	84.6392	9754
106	55.3164	3167	131	86.0079	2789
107	56.3979	3825	132	87.3876	5935
108	57.4919	3014	133	88.7783	9825
109	58.5983	8414	134	90.1800	4816
110	59.7172	7398	135	91.5925	0999
111	60.8485	7033	136	93.0156	8197
112	61.9922	4080	137	94.4494	5968
113	63.1482	4993	138	95.8937	3611
114	64.3165	5924	139	97.3484	0162
115	65.4971	2719	140	98.8133	4405
116	66.6899	0924	141	100.2884	4866
117	67.8948	5781	142	101.7735	9824
118	69.1119	2234	143	103.2686	7309
119	70.3410	4928	144	104.7735	5104
120	71.5821	8208	145	106.2881	0753
121	72.8352	6125	146	107.8122	1561
122	74.1002	2435	147	109.3457	4594
123	75.3770	0601	148	110.8885	6691
124	76.6655	3792	149	112.4405	4456
125	77.9657	4891	150	114.0015	4271

$$e = 41^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
150	114.0015	4271	175	155.5177	7530
151	115.5714	2294	176	157.2589	6068
152	117.1500	4464	177	159.0047	7013
153	118.7372	6505	178	160.7550	1964
154	120.3329	3928	179	162.5095	2408
155	121.9369	2035	180	164.2680	9731
156	123.5490	5923	181	166.0305	5214
157	125.1692	0491	182	167.7967	0047
158	126.7972	0435	183	169.5663	5324
159	128.4329	0262	184	171.3393	2057
160	130.0761	4286	185	173.1154	1173
161	131.7267	6637	186	174.8944	3523
162	133.3846	1261	187	176.6761	9886
163	135.0495	1926	188	178.4605	0974
164	136.7213	2228	189	180.2471	7435
165	138.3998	5591	190	182.0359	9858
166	140.0849	5272	191	183.8267	8781
167	141.7764	4369	192	185.6193	4693
168	143.4741	5818	193	187.4134	8037
169	145.1779	2407	194	189.2089	9221
170	146.8875	6769	195	191.0056	8615
171	148.6029	1396	196	192.8033	6564
172	150.3237	8638	197	194.6018	3384
173	152.0500	0708	198	196.4008	9376
174	153.7813	9687	199	198.2003	4823
175	155.5177	7530	200	200.0000	0000

$$e = 42^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	5.7499	4020
1	0.2098	7748	26	6.0223	3701
2	0.4199	4991	27	6.2996	6301
3	0.6304	1220	28	6.5820	9650
4	0.8414	5914	29	6.8698	1455
5	1.0532	8541	30	7.1629	9288
6	1.2660	8547	31	7.4618	0591
7	1.4800	5356	32	7.7664	2663
8	1.6953	8361	33	8.0770	2663
9	1.9122	6923	34	8.3937	7599
10	2.1309	0363	35	8.7168	4331
11	2.3514	7963	36	9.0463	9560
12	2.5741	8951	37	9.3825	9829
13	2.7992	2507	38	9.7256	1517
14	3.0267	7752	39	10.0756	0832
15	3.2570	3745	40	10.4327	3814
16	3.4901	9478	41	10.7971	6323
17	3.7264	3872	42	11.1690	4042
18	3.9659	5771	43	11.5485	2469
19	4.2089	3939	44	11.9357	6914
20	4.4555	7054	45	12.3309	2496
21	4.7060	3705	46	12.7341	4139
22	4.9605	2384	47	13.1455	6567
23	5.2192	1488	48	13.5653	4302
24	5.4822	9306	49	13.9936	1661
25	5.7499	4020	50	14.4305	2750

$$e = 42^c$$

θ	mean anomaly		θ	mean anomaly	
50	14.4305	2750	75	28.5262	4456
51	14.8762	1463	76	29.2296	1111
52	15.3308	1476	77	29.9445	1756
53	15.7944	6246	78	30.6710	3424
54	16.2672	9007	79	31.4092	2864
55	16.7494	2767	80	32.1591	6535
56	17.2410	0302	81	32.9209	0607
57	17.7421	4157	82	33.6945	0958
58	18.2529	6641	83	34.4800	3176
59	18.7735	9824	84	35.2775	2551
60	19.3041	5533	85	36.0870	4080
61	19.8447	5351	86	36.9086	2463
62	20.3955	0614	87	37.7423	2102
63	20.9565	2404	88	38.5881	7101
64	21.5279	1555	89	39.4462	1263
65	22.1097	8641	90	40.3164	8090
66	22.7022	3979	91	41.1990	0784
67	23.3053	7624	92	42.0938	2243
68	23.9192	9369	93	43.0009	5062
69	24.5440	8739	94	43.9204	1533
70	25.1798	4992	95	44.8522	3643
71	25.8266	7115	96	45.7964	3073
72	26.4846	3823	97	46.7530	1202
73	27.1538	3554	98	47.7219	9100
74	27.8343	4470	99	48.7033	7532
75	28.5262	4456	100	49.6971	6959

$$e = 42^c$$

θ	mean anomaly		θ	mean anomaly	
100	49.6971	6959	125	78.5262	4456
101	50.7033	7532	126	79.8343	4470
102	51.7219	9100	127	81.1538	3554
103	52.7530	1202	128	82.4846	3823
104	53.7964	3073	129	83.8266	7115
105	54.8522	3643	130	85.1798	4992
106	55.9204	1533	131	86.5440	8739
107	57.0009	5062	132	87.9192	9369
108	58.0938	2243	133	89.3053	7624
109	59.1990	0784	134	90.7022	3979
110	60.3164	8090	135	92.1097	8641
111	61.4462	1263	136	93.5279	1555
112	62.5881	7101	137	94.9565	2404
113	63.7423	2102	138	96.3955	0614
114	64.9086	2463	139	97.8447	5351
115	66.0870	4080	140	99.3041	5533
116	67.2775	2551	141	100.7735	9824
117	68.4800	3176	142	102.2529	6641
118	69.6945	0958	143	103.7421	4157
119	70.9209	0607	144	105.2410	0302
120	72.1591	6535	145	106.7494	2767
121	73.4092	2864	146	108.2672	9007
122	74.6710	3424	147	109.7944	6246
123	75.9445	1756	148	111.3308	1476
124	77.2296	1111	149	112.8762	1463
125	78.5262	4456	150	114.4305	2750

$$e = 42^c$$

θ	mean anomaly		θ	mean anomaly	
150	114.4305	2750	175	155.7499	4020
151	115.9936	1661	176	157.4822	9306
152	117.5653	4302	177	159.2192	1488
153	119.1455	6567	178	160.9605	2384
154	120.7341	4139	179	162.7060	3705
155	122.3309	2496	180	164.4555	7054
156	123.9357	6914	181	166.2089	3939
157	125.5485	2469	182	167.9659	5771
158	127.1690	4042	183	169.7264	3872
159	128.7971	6323	184	171.4901	9478
160	130.4327	3814	185	173.2570	3745
161	132.0756	0832	186	175.0267	7752
162	133.7256	1517	187	176.7992	2507
163	135.3825	9829	188	178.5741	8951
164	137.0463	9560	189	180.3514	7963
165	138.7168	4331	190	182.1309	0363
166	140.3937	7599	191	183.9122	6923
167	142.0770	2663	192	185.6953	8361
168	143.7664	2663	193	187.4800	5356
169	145.4618	0591	194	189.2660	8547
170	147.1629	9288	195	191.0532	8541
171	148.8698	1455	196	192.8414	5914
172	150.5820	9650	197	194.6304	1220
173	152.2996	6301	198	196.4199	4991
174	154.0223	3701	199	198.2098	7748
175	155.7499	4020	200	200.0000	0000

$$e = 43^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	5.9868	5476
1	0.2196	0169	26	6.2682	0634
2	0.4393	9592	27	6.5544	2644
3	0.6595	7522	28	6.8456	9118
4	0.8803	3198	29	7.1421	7543
5	1.1018	5847	30	7.4440	5277
6	1.3243	4676	31	7.7514	9545
7	1.5479	8871	32	8.0646	7435
8	1.7729	7586	33	8.3837	5894
9	1.9994	9943	34	8.7089	1721
10	2.2277	5027	35	9.0403	1568
11	2.4579	1880	36	9.3781	1932
12	2.6901	9496	37	9.7224	9150
13	2.9247	6817	38	10.0735	9401
14	3.1618	2730	39	10.4315	8693
15	3.4015	6058	40	10.7966	2869
16	3.6441	5560	41	11.1688	7594
17	3.8897	9925	42	11.5484	8357
18	4.1386	7764	43	11.9356	0466
19	4.3909	7610	44	12.3303	9042
20	4.6468	7912	45	12.7329	9019
21	4.9065	7030	46	13.1435	5135
22	5.1702	3228	47	13.5622	1936
23	5.4380	4677	48	13.9891	3764
24	5.7101	9440	49	14.4244	4758
25	5.9868	5476	50	14.8682	8853

$$e = 43^c$$

θ	mean anomaly		θ	mean anomaly	
50	14.8682	8853	75	29.0982	0690
51	15.3207	9770	76	29.8052	2419
52	15.7821	1019	77	30.5236	3934
53	16.2523	5889	78	31.2535	2184
54	16.7316	7452	79	31.9949	3834
55	17.2201	8556	80	32.7479	5263
56	17.7180	1820	81	33.5126	2566
57	18.2252	9635	82	34.2890	1548
58	18.7421	4157	83	35.0771	7728
59	19.2686	7309	84	35.8771	6332
60	19.8050	0771	85	36.6890	2294
61	20.3512	5985	86	37.5128	0258
62	20.9075	4145	87	38.3485	4571
63	21.4739	6200	88	39.1962	9285
64	22.0506	2849	89	40.0560	8158
65	22.6376	4535	90	40.9279	4649
66	23.2351	1449	91	41.8119	1920
67	23.8431	3523	92	42.7080	2833
68	24.4618	0427	93	43.6162	9951
69	25.0912	1572	94	44.5367	5538
70	25.7314	6100	95	45.4694	1557
71	26.3826	2887	96	46.4142	9669
72	27.0448	0542	97	47.3714	1234
73	27.7180	7399	98	48.3407	7310
74	28.4025	1520	99	49.3223	8653
75	29.0982	0690	100	50.3162	5717

$$e = 43^c$$

θ	mean anomaly		θ	mean anomaly	
100	50.3162	5717	125	79.0982	0690
101	51.3223	8653	126	80.4025	1520
102	52.3407	7310	127	81.7180	7399
103	53.3714	1234	128	83.0448	0542
104	54.4142	9669	129	84.3826	2887
105	55.4694	1557	130	85.7314	6100
106	56.5367	5538	131	87.0912	1572
107	57.6162	9951	132	88.4618	0427
108	58.7080	2833	133	89.8431	3523
109	59.8119	1920	134	91.2351	1449
110	60.9279	4649	135	92.6376	4535
111	62.0560	8158	136	94.0506	2849
112	63.1962	9285	137	95.4739	6200
113	64.3485	4571	138	96.9075	4145
114	65.5128	0258	139	98.3512	5985
115	66.6890	2294	140	99.8050	0771
116	67.8771	6332	141	101.2686	7309
117	69.0771	7728	142	102.7421	4157
118	70.2890	1548	143	104.2252	9635
119	71.5126	2566	144	105.7180	1820
120	72.7479	5263	145	107.2201	8556
121	73.9949	3834	146	108.7316	7452
122	75.2535	2184	147	110.2523	5889
123	76.5236	3934	148	111.7821	1019
124	77.8052	2419	149	113.3207	9770
125	79.0982	0690	150	114.8682	8853

$$e = 43^c$$

θ	mean anomaly		θ	mean anomaly	
150	114.8682	8853	175	155.9868	5476
151	116.4244	4758	176	157.7101	9440
152	117.9891	3764	177	159.4380	4677
153	119.5622	1936	178	161.1702	3228
154	121.1435	5135	179	162.9065	7030
155	122.7329	9019	180	164.6468	7912
156	124.3303	9042	181	166.3909	7610
157	125.9356	0466	182	168.1386	7764
158	127.5484	8357	183	169.8897	9925
159	129.1688	7594	184	171.6441	5560
160	130.7966	2869	185	173.4015	6058
161	132.4315	8693	186	175.1618	2730
162	134.0735	9401	187	176.9247	6817
163	135.7224	9150	188	178.6901	9496
164	137.3781	1932	189	180.4579	1880
165	139.0403	1568	190	182.2277	5027
166	140.7089	1721	191	183.9994	9943
167	142.3837	5894	192	185.7729	7586
168	144.0646	7435	193	187.5479	8871
169	145.7514	9545	194	189.3243	4676
170	147.4440	5277	195	191.1018	5847
171	149.1421	7543	196	192.8803	3198
172	150.8456	9118	197	194.6595	7522
173	152.5544	2644	198	196.4393	9592
174	154.2682	0634	199	198.2196	0169
175	155.9868	5476	200	200.0000	0000

$$e = 44^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	6.2284	6053
1	0.2295	1844	26	6.5189	4419
2	0.4592	2699	27	6.8142	3451
3	0.6893	1570	28	7.1145	0536
4	0.9199	7454	29	7.4199	2939
5	1.1513	9333	30	7.7306	7799
6	1.3837	6170	31	8.0469	2121
7	1.6172	6906	32	8.3688	2775
8	1.8521	0453	33	8.6965	6494
9	2.0884	5690	34	9.0302	9863
10	2.3265	1459	35	9.3701	9322
11	2.5664	6560	36	9.7164	1159
12	2.8084	9746	37	10.0691	1503
13	3.0527	9718	38	10.4284	6327
14	3.2995	5122	39	10.7946	1437
15	3.5489	4545	40	11.1677	2473
16	3.8011	6504	41	11.5479	4903
17	4.0563	9452	42	11.9354	4017
18	4.3148	1764	43	12.3303	4930
19	4.5766	1737	44	12.7328	2570
20	4.8419	7586	45	13.1430	1681
21	5.1110	7436	46	13.5610	6816
22	5.3840	9322	47	13.9871	2332
23	5.6612	1180	48	14.4213	2392
24	5.9426	0847	49	14.8638	0956
25	6.2284	6053	50	15.3147	1779

$$e = 44^c$$

θ	mean anomaly		θ	mean anomaly	
50	15.3147	1779	75	29.6814	9483
51	15.7741	8409	76	30.3922	3514
52	16.2423	4184	77	31.1142	2848
53	16.7193	2225	78	31.8475	4344
54	17.2052	5438	79	32.5922	4583
55	17.7002	6506	80	33.3483	9865
56	18.2044	7889	81	34.1160	6204
57	18.7180	1820	82	34.8952	9335
58	19.2410	0302	83	35.6861	4704
59	19.7735	5104	84	36.4886	7472
60	20.3157	7760	85	37.3029	2510
61	20.8677	9565	86	38.1289	4402
62	21.4297	1571	87	38.9667	7441
63	22.0016	4589	88	39.8164	5628
64	22.5836	9180	89	40.6780	2672
65	23.1759	5657	90	41.5515	1988
66	23.7785	4079	91	42.4369	6698
67	24.3915	4252	92	43.3343	9628
68	25.0150	5726	93	44.2438	3309
69	25.6491	7788	94	45.1652	9975
70	26.2939	9467	95	46.0988	1565
71	26.9495	9527	96	47.0443	9718
72	27.6160	6464	97	48.0020	5777
73	28.2934	8508	98	48.9718	0787
74	28.9819	3619	99	49.9536	5495
75	29.6814	9483	100	50.9476	0348

$$e = 44^c$$

θ	mean anomaly		θ	mean anomaly	
100	50.9476	0348	125	79.6814	9483
101	51.9536	5495	126	80.9819	3619
102	52.9718	0787	127	82.2934	8508
103	54.0020	5777	128	83.6160	6464
104	55.0443	9718	129	84.9495	9527
105	56.0988	1565	130	86.2939	9467
106	57.1652	9975	131	87.6491	7788
107	58.2438	3309	132	89.0150	5726
108	59.3343	9628	133	90.3915	4252
109	60.4369	6698	134	91.7785	4079
110	61.5515	1988	135	93.1759	5657
111	62.6780	2672	136	94.5836	9180
112	63.8164	5628	137	96.0016	4589
113	64.9667	7441	138	97.4297	1571
114	66.1289	4402	139	98.8677	9565
115	67.3029	2510	140	100.3157	7760
116	68.4886	7472	141	101.7735	5104
117	69.6861	4704	142	103.2410	0302
118	70.8952	9335	143	104.7180	1820
119	72.1160	6204	144	106.2044	7889
120	73.3483	9865	145	107.7002	6506
121	74.5922	4583	146	109.2052	5438
122	75.8475	4344	147	110.7193	2225
123	77.1142	2848	148	112.2423	4184
124	78.3922	3514	149	113.7741	8409
125	79.6814	9483	150	115.3147	1779

$$e = 44^c$$

θ	mean anomaly		θ	mean anomaly	
150	115.3147	1779	175	156.2284	6053
151	116.8638	0956	176	157.9426	0847
152	118.4213	2392	177	159.6612	1180
153	119.9871	2332	178	161.3840	9322
154	121.5610	6816	179	163.1110	7436
155	123.1430	1681	180	164.8419	7586
156	124.7328	2570	181	166.5766	1737
157	126.3303	4930	182	168.3148	1764
158	127.9354	4017	183	170.0563	9452
159	129.5479	4903	184	171.8011	6504
160	131.1677	2473	185	173.5489	4545
161	132.7946	1437	186	175.2995	5122
162	134.4284	6327	187	177.0527	9718
163	136.0691	1503	188	178.8084	9746
164	137.7164	1159	189	180.5664	6560
165	139.3701	9322	190	182.3265	1459
166	141.0302	9863	191	184.0884	5690
167	142.6965	6494	192	185.8521	0453
168	144.3688	2775	193	187.6172	6906
169	146.0469	2121	194	189.3837	6170
170	147.7306	7799	195	191.1513	9333
171	149.4199	2939	196	192.9199	7454
172	151.1145	0536	197	194.6893	1570
173	152.8142	3451	198	196.4592	2699
174	154.5189	4419	199	198.2295	1844
175	156.2284	6053	200	200.0000	0000

$$e = 45^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	6.4746	9790
1	0.2396	2530	26	6.7744	8870
2	0.4794	3822	27	7.0790	2311
3	0.7196	2631	28	7.3884	7272
4	0.9603	7705	29	7.7030	0792
5	1.2018	7777	30	8.0227	9784
6	1.4443	1562	31	8.3480	1029
7	1.6878	7752	32	8.6788	1179
8	1.9327	5010	33	9.0153	6744
9	2.1791	1969	34	9.3578	4095
10	2.4271	7223	35	9.7063	9453
11	2.6770	9325	36	10.0611	8893
12	2.9290	6782	37	10.4223	8335
13	3.1832	8051	38	10.7901	3540
14	3.4399	1533	39	11.1646	0107
15	3.6991	5569	40	11.5459	3471
16	3.9611	8436	41	11.9342	8897
17	4.2261	8344	42	12.3298	1476
18	4.4943	3426	43	12.7326	6122
19	4.7658	1740	44	13.1429	7569
20	5.0408	1261	45	13.5609	0367
21	5.3194	9878	46	13.9865	8878
22	5.6020	5388	47	14.4201	7272
23	5.8886	5493	48	14.8617	9524
24	6.1794	7794	49	15.3115	9412
25	6.4746	9790	50	15.7697	0511

$$e = 45^c$$

θ	mean anomaly		θ	mean anomaly	
50	15.7697	0511	75	30.2759	6442
51	16.2362	6192	76	30.9904	9912
52	16.7113	9615	77	31.7161	3923
53	17.1952	3732	78	32.4529	5247
54	17.6879	1278	79	33.2010	0375
55	18.1895	4771	80	33.9603	5525
56	18.7002	6506	81	34.7310	6634
57	19.2201	8556	82	35.5131	9360
58	19.7494	2767	83	36.3067	9079
59	20.2881	0753	84	37.1119	0882
60	20.8363	3898	85	37.9285	9579
61	21.3942	3347	86	38.7568	9693
62	21.9619	0009	87	39.5968	5459
63	22.5394	4551	88	40.4485	0827
64	23.1269	7397	89	41.3118	9457
65	23.7245	8724	90	42.1870	4720
66	24.3323	8460	91	43.0739	9695
67	24.9504	6282	92	43.9727	7174
68	25.5789	1613	93	44.8833	9652
69	26.2178	3621	94	45.8058	9335
70	26.8673	1215	95	46.7402	8136
71	27.5274	3044	96	47.6865	7673
72	28.1982	7493	97	48.6447	9271
73	28.8799	2684	98	49.6149	3962
74	29.5724	6472	99	50.5970	2482
75	30.2759	6442	100	51.5910	5273

$$e = 45^c$$

θ	mean anomaly		θ	mean anomaly	
100	51.5910	5273	125	80.2759	6442
101	52.5970	2482	126	81.5724	6472
102	53.6149	3962	127	82.8799	2684
103	54.6447	9271	128	84.1982	7493
104	55.6865	7673	129	85.5274	3044
105	56.7402	8136	130	86.8673	1215
106	57.8058	9335	131	88.2178	3621
107	58.8833	9652	132	89.5789	1613
108	59.9727	7174	133	90.9504	6282
109	61.0739	9695	134	92.3323	8460
110	62.1870	4720	135	93.7245	8724
111	63.3118	9457	136	95.1269	7397
112	64.4485	0827	137	96.5394	4551
113	65.5968	5459	138	97.9619	0009
114	66.7568	9693	139	99.3942	3347
115	67.9285	9579	140	100.8363	3898
116	69.1119	0882	141	102.2881	0753
117	70.3067	9079	142	103.7494	2767
118	71.5131	9360	143	105.2201	8556
119	72.7310	6634	144	106.7002	6506
120	73.9603	5525	145	108.1895	4771
121	75.2010	0375	146	109.6879	1278
122	76.4529	5247	147	111.1952	3732
123	77.7161	3923	148	112.7113	9615
124	78.9904	9912	149	114.2362	6192
125	80.2759	6442	150	115.7697	0511

$$e = 45^c$$

θ	mean anomaly		θ	mean anomaly	
150	115.7697	0511	175	156.4746	9790
151	117.3115	9412	176	158.1794	7794
152	118.8617	9524	177	159.8886	5493
153	120.4201	7272	178	161.6020	5388
154	121.9865	8878	179	163.3194	9878
155	123.5609	0367	180	165.0408	1261
156	125.1429	7569	181	166.7658	1740
157	126.7326	6122	182	168.4943	3426
158	128.3298	1476	183	170.2261	8344
159	129.9342	8897	184	171.9611	8436
160	131.5459	3471	185	173.6991	5569
161	133.1646	0107	186	175.4399	1533
162	134.7901	3540	187	177.1832	8051
163	136.4223	8335	188	178.9290	6782
164	138.0611	8893	189	180.6770	9325
165	139.7063	9453	190	182.4271	7223
166	141.3578	4095	191	184.1791	1969
167	143.0153	6744	192	185.9327	5010
168	144.6788	1179	193	187.6878	7752
169	146.3480	1029	194	189.4443	1562
170	148.0227	9784	195	191.2018	7777
171	149.7030	0792	196	192.9603	7705
172	151.3884	7272	197	194.7196	2631
173	153.0790	2311	198	196.4794	3822
174	154.7744	8870	199	198.2396	2530
175	156.4746	9790	200	200.0000	0000

$$e = 46^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	6.7255	0611
1	0.2499	1978	26	7.0347	7682
2	0.5000	2463	27	7.3487	2692
3	0.7504	9957	28	7.6675	2568
4	1.0015	2955	29	7.9913	4117
5	1.2532	9935	30	8.3203	4023
6	1.5059	9359	31	8.6546	8842
7	1.7597	9667	32	8.9945	4999
8	2.0148	9268	33	9.3400	8780
9	2.2714	6543	34	9.6914	6335
10	2.5296	9835	35	10.0488	3666
11	2.7897	7445	36	10.4123	6630
12	3.0518	7631	37	10.7822	0930
13	3.3161	8597	38	11.1585	2115
14	3.5828	8498	39	11.5414	5574
15	3.8521	5425	40	11.9311	6531
16	4.1241	7408	41	12.3278	0044
17	4.3991	2410	42	12.7315	1001
18	4.6771	8320	43	13.1424	4115
19	4.9585	2950	44	13.5607	3919
20	5.2433	4032	45	13.9865	4766
21	5.5317	9213	46	14.4200	0823
22	5.8240	6049	47	14.8612	6070
23	6.1203	2002	48	15.3104	4292
24	6.4207	4435	49	15.7676	9080
25	6.7255	0611	50	16.2331	3825

$$e = 46^c$$

θ	mean anomaly		θ	mean anomaly	
50	16.2331	3825	75	30.8814	6900
51	16.7069	1718	76	31.5998	6852
52	17.1891	5740	77	32.3292	2311
53	17.6799	8668	78	33.0695	9954
54	18.1795	3065	79	33.8210	6188
55	18.6879	1278	80	34.5836	7144
56	19.2052	5438	81	35.3574	8681
57	19.7316	7452	82	36.1425	6378
58	20.2672	9007	83	36.9389	5539
59	20.8122	1561	84	37.7467	1187
60	21.3665	6340	85	38.5658	8065
61	21.9304	4342	86	39.3965	0637
62	22.5039	6327	87	40.2386	3079
63	23.0872	2817	88	41.0922	9289
64	23.6803	4095	89	41.9575	2876
65	24.2834	0201	90	42.8343	7165
66	24.8965	0927	91	43.7228	5196
67	25.5197	5821	92	44.6229	9720
68	26.1532	4177	93	45.5348	3200
69	26.7970	5040	94	46.4583	7812
70	27.4512	7198	95	47.3936	5443
71	28.1159	9181	96	48.3406	7689
72	28.7912	9263	97	49.2994	5858
73	29.4772	5456	98	50.2700	0966
74	30.1739	5507	99	51.2523	3740
75	30.8814	6900	100	52.2464	4616

$$e = 46^c$$

θ	mean anomaly		θ	mean anomaly	
100	52.2464	4616	125	80.8814	6900
101	53.2523	3740	126	82.1739	5507
102	54.2700	0966	127	83.4772	5456
103	55.2994	5858	128	84.7912	9263
104	56.3406	7689	129	86.1159	9181
105	57.3936	5443	130	87.4512	7198
106	58.4583	7812	131	88.7970	5040
107	59.5348	3200	132	90.1532	4177
108	60.6229	9720	133	91.5197	5821
109	61.7228	5196	134	92.8965	0927
110	62.8343	7165	135	94.2834	0201
111	63.9575	2876	136	95.6803	4095
112	65.0922	9289	137	97.0872	2817
113	66.2386	3079	138	98.5039	6327
114	67.3965	0637	139	99.9304	4342
115	68.5658	8065	140	101.3665	6340
116	69.7467	1187	141	102.8122	1561
117	70.9389	5539	142	104.2672	9007
118	72.1425	6378	143	105.7316	7452
119	73.3574	8681	144	107.2052	5438
120	74.5836	7144	145	108.6879	1278
121	75.8210	6188	146	110.1795	3065
122	77.0695	9954	147	111.6799	8668
123	78.3292	2311	148	113.1891	5740
124	79.5998	6852	149	114.7069	1718
125	80.8814	6900	150	116.2331	3825

$$e = 46^c$$

θ	mean anomaly		θ	mean anomaly	
150	116.2331	3825	175	156.7255	0611
151	117.7676	9080	176	158.4207	4435
152	119.3104	4292	177	160.1203	2002
153	120.8612	6070	178	161.8240	6049
154	122.4200	0823	179	163.5317	9213
155	123.9865	4766	180	165.2433	4032
156	125.5607	3919	181	166.9585	2950
157	127.1424	4115	182	168.6771	8320
158	128.7315	1001	183	170.3991	2410
159	130.3278	0044	184	172.1241	7408
160	131.9311	6531	185	173.8521	5425
161	133.5414	5574	186	175.5828	8498
162	135.1585	2115	187	177.3161	8597
163	136.7822	0930	188	179.0518	7631
164	138.4123	6630	189	180.7897	7445
165	140.0488	3666	190	182.5296	9835
166	141.6914	6335	191	184.2714	6543
167	143.3400	8780	192	186.0148	9268
168	144.9945	4999	193	187.7597	9667
169	146.6546	8842	194	189.5059	9359
170	148.3203	4023	195	191.2532	9935
171	149.9913	4117	196	193.0015	2955
172	151.6675	2568	197	194.7504	9957
173	153.3487	2692	198	196.5000	2463
174	155.0347	7682	199	198.2499	1978
175	156.7255	0611	200	200.0000	0000

$$e = 47^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	6.9808	2328
1	0.2603	9932	26	7.2997	4433
2	0.5209	8113	27	7.6232	7939
3	0.7819	2786	28	7.9515	9536
4	1.0434	2187	29	8.2848	5798
5	1.3056	4537	30	8.6232	3175
6	1.5687	8039	31	8.9668	7992
7	1.8330	0876	32	9.3159	6443
8	2.0985	1200	33	9.6706	4589
9	2.3654	7134	34	10.0310	8351
10	2.6340	6766	35	10.3974	3511
11	2.9044	8141	36	10.7698	5703
12	3.1768	9260	37	11.1485	0410
13	3.4514	8077	38	11.5335	2964
14	3.7284	2489	39	11.9250	8539
15	4.0079	0337	40	12.3233	2147
16	4.2900	9399	41	12.7283	8635
17	4.5751	7384	42	13.1404	2683
18	4.8633	1934	43	13.5595	8798
19	5.1547	0612	44	13.9860	1312
20	5.4495	0902	45	14.4198	4375
21	5.7479	0203	46	14.8612	1958
22	6.0500	5827	47	15.3102	7844
23	6.3561	4992	48	15.7671	5626
24	6.6663	4819	49	16.2319	8705
25	6.9808	2328	50	16.7049	0286

$$e = 47^c$$

θ	mean anomaly		θ	mean anomaly	
50	16.7049	0286	75	31.4978	5917
51	17.1860	3374	76	32.2201	9299
52	17.6755	0771	77	32.9533	2883
53	18.1734	5073	78	33.6973	3252
54	18.6799	8668	79	34.4522	6724
55	19.1952	3732	80	35.2181	9344
56	19.7193	2225	81	35.9951	6888
57	20.2523	5889	82	36.7832	4859
58	20.7944	6246	83	37.5824	8486
59	21.3457	4594	84	38.3929	2722
60	21.9063	2005	85	39.2146	2244
61	22.4762	9320	86	40.0476	1452
62	23.0557	7150	87	40.8919	4466
63	23.6448	5870	88	41.7476	5127
64	24.2436	5620	89	42.6147	6996
65	24.8522	6298	90	43.4933	3352
66	25.4707	7561	91	44.3833	7189
67	26.0992	8823	92	45.2849	1222
68	26.7378	9248	93	46.1979	7880
69	27.3866	7754	94	47.1225	9308
70	28.0457	3006	95	48.0587	7366
71	28.7151	3417	96	49.0065	3628
72	29.3949	7144	97	49.9658	9383
73	30.0853	2087	98	50.9368	5635
74	30.7862	5885	99	51.9194	3100
75	31.4978	5917	100	52.9136	2207

$$e = 47^c$$

θ	mean anomaly		θ	mean anomaly	
100	52.9136	2207	125	81.4978	5917
101	53.9194	3100	126	82.7862	5885
102	54.9368	5635	127	84.0853	2087
103	55.9658	9383	128	85.3949	7144
104	57.0065	3628	129	86.7151	3417
105	58.0587	7366	130	88.0457	3006
106	59.1225	9308	131	89.3866	7754
107	60.1979	7880	132	90.7378	9248
108	61.2849	1222	133	92.0992	8823
109	62.3833	7189	134	93.4707	7561
110	63.4933	3352	135	94.8522	6298
111	64.6147	6996	136	96.2436	5620
112	65.7476	5127	137	97.6448	5870
113	66.8919	4466	138	99.0557	7150
114	68.0476	1452	139	100.4762	9320
115	69.2146	2244	140	101.9063	2005
116	70.3929	2722	141	103.3457	4594
117	71.5824	8486	142	104.7944	6246
118	72.7832	4859	143	106.2523	5889
119	73.9951	6888	144	107.7193	2225
120	75.2181	9344	145	109.1952	3732
121	76.4522	6724	146	110.6799	8668
122	77.6973	3252	147	112.1734	5073
123	78.9533	2883	148	113.6755	0771
124	80.2201	9299	149	115.1860	3374
125	81.4978	5917	150	116.7049	0286

$$e = 47^c$$

θ	mean anomaly		θ	mean anomaly	
150	116.7049	0286	175	156.9808	2328
151	118.2319	8705	176	158.6663	4819
152	119.7671	5626	177	160.3561	4992
153	121.3102	7844	178	162.0500	5827
154	122.8612	1958	179	163.7479	0203
155	124.4198	4375	180	165.4495	0902
156	125.9860	1312	181	167.1547	0612
157	127.5595	8798	182	168.8633	1934
158	129.1404	2683	183	170.5751	7384
159	130.7283	8635	184	172.2900	9399
160	132.3233	2147	185	174.0079	0337
161	133.9250	8539	186	175.7284	2489
162	135.5335	2964	187	177.4514	8077
163	137.1485	0410	188	179.1768	9260
164	138.7698	5703	189	180.9044	8141
165	140.3974	3511	190	182.6340	6766
166	142.0310	8351	191	184.3654	7134
167	143.6706	4589	192	186.0985	1200
168	145.3159	6443	193	187.8330	0876
169	146.9668	7992	194	189.5687	8039
170	148.6232	3175	195	191.3056	4537
171	150.2848	5798	196	193.0434	2187
172	151.9515	9536	197	194.7819	2786
173	153.6232	7939	198	196.5209	8113
174	155.2997	4433	199	198.2603	9932
175	156.9808	2328	200	200.0000	0000

$$e = 48^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	7.2405	8640
1	0.2710	6135	26	7.5693	2584
2	0.5423	0255	27	7.9026	1277
3	0.8139	0342	28	8.2406	1169
4	1.0860	4368	29	8.5834	8595
5	1.3589	0291	30	8.9313	9767
6	1.6326	6053	31	9.2845	0776
7	1.9074	9572	32	9.6429	7582
8	2.1835	8741	33	10.0069	6014
9	2.4611	1422	34	10.3766	1765
10	2.7402	5440	35	10.7521	0388
11	3.0211	8581	36	11.1335	7291
12	3.3040	8587	37	11.5211	7737
13	3.5891	3152	38	11.9150	6833
14	3.8764	9916	39	12.3153	9537
15	4.1663	6463	40	12.7223	0643
16	4.4589	0313	41	13.1359	4786
17	4.7542	8922	42	13.5564	6432
18	5.0526	9677	43	13.9839	9880
19	5.3542	9886	44	14.4186	9255
20	5.6592	6783	45	14.8606	8504
21	5.9677	7515	46	15.3101	1395
22	6.2799	9146	47	15.7671	1514
23	6.5960	8644	48	16.2318	2257
24	6.9162	2884	49	16.7043	6832
25	7.2405	8640	50	17.1848	8254

$$e = 48^c$$

θ	mean anomaly		θ	mean anomaly	
50	17.1848	8254	75	32.1249	8284
51	17.6734	9340	76	32.8513	1948
52	18.1703	2707	77	33.5883	0241
53	18.6755	0771	78	34.3359	9653
54	19.1891	5740	79	35.0944	6408
55	19.7113	9615	80	35.8637	6467
56	20.2423	4184	81	36.6439	5522
57	20.7821	1019	82	37.4350	8996
58	21.3308	1476	83	38.2372	2042
59	21.8885	6691	84	39.0503	9543
60	22.4554	7574	85	39.8746	6108
61	23.0316	4813	86	40.7100	6073
62	23.6171	8864	87	41.5566	3500
63	24.2121	9953	88	42.4144	2174
64	24.8167	8073	89	43.2834	5603
65	25.4310	2981	90	44.1637	7020
66	26.0550	4194	91	45.0553	9378
67	26.6889	0989	92	45.9583	5350
68	27.3327	2399	93	46.8726	7330
69	27.9865	7214	94	47.7983	7434
70	28.6505	3974	95	48.7354	7493
71	29.3247	0970	96	49.6839	9060
72	30.0091	6241	97	50.6439	3406
73	30.7039	7573	98	51.6153	1518
74	31.4092	2497	99	52.5981	4102
75	32.1249	8284	100	53.5924	1583

$$e = 48^c$$

θ	mean anomaly		θ	mean anomaly	
100	53.5924	1583	125	82.1249	8284
101	54.5981	4102	126	83.4092	2497
102	55.6153	1518	127	84.7039	7573
103	56.6439	3406	128	86.0091	6241
104	57.6839	9060	129	87.3247	0970
105	58.7354	7493	130	88.6505	3974
106	59.7983	7434	131	89.9865	7214
107	60.8726	7330	132	91.3327	2399
108	61.9583	5350	133	92.6889	0989
109	63.0553	9378	134	94.0550	4194
110	64.1637	7020	135	95.4310	2981
111	65.2834	5603	136	96.8167	8073
112	66.4144	2174	137	98.2121	9953
113	67.5566	3500	138	99.6171	8864
114	68.7100	6073	139	101.0316	4813
115	69.8746	6108	140	102.4554	7574
116	71.0503	9543	141	103.8885	6691
117	72.2372	2042	142	105.3308	1476
118	73.4350	8996	143	106.7821	1019
119	74.6439	5522	144	108.2423	4184
120	75.8637	6467	145	109.7113	9615
121	77.0944	6408	146	111.1891	5740
122	78.3359	9653	147	112.6755	0771
123	79.5883	0241	148	114.1703	2707
124	80.8513	1948	149	115.6734	9340
125	82.1249	8284	150	117.1848	8254

$$e = 48^c$$

θ	mean anomaly		θ	mean anomaly	
150	117.1848	8254	175	157.2405	8640
151	118.7043	6832	176	158.9162	2884
152	120.2318	2257	177	160.5960	8644
153	121.7671	1514	178	162.2799	9146
154	123.3101	1395	179	163.9677	7515
155	124.8606	8504	180	165.6592	6783
156	126.4186	9255	181	167.3542	9886
157	127.9839	9880	182	169.0526	9677
158	129.5564	6432	183	170.7542	8922
159	131.1359	4786	184	172.4589	0313
160	132.7223	0643	185	174.1663	6463
161	134.3153	9537	186	175.8764	9916
162	135.9150	6833	187	177.5891	3152
163	137.5211	7737	188	179.3040	8587
164	139.1335	7291	189	181.0211	8581
165	140.7521	0388	190	182.7402	5440
166	142.3766	1765	191	184.4611	1422
167	144.0069	6014	192	186.1835	8741
168	145.6429	7582	193	187.9074	9572
169	147.2845	0776	194	189.6326	6053
170	148.9313	9767	195	191.3589	0291
171	150.5834	8595	196	193.0860	4368
172	152.2406	1169	197	194.8139	0342
173	153.9026	1277	198	196.5423	0255
174	155.5693	2584	199	198.2710	6135
175	157.2405	8640	200	200.0000	0000

$$e = 49^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	7.5047	3140
1	0.2819	0323	26	7.8434	5485
2	0.5639	8365	27	8.1866	5814
3	0.8464	1838	28	8.5345	0335
4	1.1293	8447	29	8.8871	5138
5	1.4130	5884	30	9.2447	6196
6	1.6976	1824	31	9.6074	9358
7	1.9832	3919	32	9.9755	0347
8	2.2700	9795	33	10.3489	4759
9	2.5583	7047	34	10.7279	8051
10	2.8482	3237	35	11.1127	5546
11	3.1398	5886	36	11.5034	2422
12	3.4334	2473	37	11.9001	3715
13	3.7291	0427	38	12.3030	4309
14	4.0270	7126	39	12.7122	8938
15	4.3274	9892	40	13.1280	2176
16	4.6305	5987	41	13.5503	8440
17	4.9364	2605	42	13.9795	1983
18	5.2452	6874	43	14.4155	6888
19	5.5572	5847	44	14.8586	7072
20	5.8725	6500	45	15.3089	6275
21	6.1913	5725	46	15.7665	8059
22	6.5138	0332	47	16.2316	5808
23	6.8400	7038	48	16.7043	2720
24	7.1703	2465	49	17.1847	1805
25	7.5047	3140	50	17.6729	5885

$$e = 49^c$$

θ	mean anomaly		θ	mean anomaly	
50	17.6729	5885	75	32.7626	8527
51	18.1691	7587	76	33.4930	9225
52	18.6734	9340	77	34.2339	8717
53	19.1860	3374	78	34.9854	3397
54	19.7069	1718	79	35.7474	9396
55	20.2362	6192	80	36.5202	2587
56	20.7741	8409	81	37.3036	8575
57	21.3207	9770	82	38.0979	2705
58	21.8762	1463	83	38.9030	0053
59	22.4405	4456	84	39.7189	5428
60	23.0138	9499	85	40.5458	3372
61	23.5963	7118	86	41.3836	8156
62	24.1880	7616	87	42.2325	3781
63	24.7891	1067	88	43.0924	3976
64	25.3995	7314	89	43.9634	2198
65	26.0195	5969	90	44.8455	1630
66	26.6491	6408	91	45.7387	5181
67	27.2884	7770	92	46.6431	5486
68	27.9375	8955	93	47.5587	4903
69	28.5965	8619	94	48.4855	5515
70	29.2655	5177	95	49.4235	9128
71	29.9445	6797	96	50.3728	7271
72	30.6337	1398	97	51.3334	1194
73	31.3330	6651	98	52.3052	1873
74	32.0426	9972	99	53.2883	0001
75	32.7626	8527	100	54.2826	5998

$$e = 49^c$$

θ	mean anomaly		θ	mean anomaly	
100	54.2826	5998	125	82.7626	8527
101	55.2883	0001	126	84.0426	9972
102	56.3052	1873	127	85.3330	6651
103	57.3334	1194	128	86.6337	1398
104	58.3728	7271	129	87.9445	6797
105	59.4235	9128	130	89.2655	5177
106	60.4855	5515	131	90.5965	8619
107	61.5587	4903	132	91.9375	8955
108	62.6431	5486	133	93.2884	7770
109	63.7387	5181	134	94.6491	6408
110	64.8455	1630	135	96.0195	5969
111	65.9634	2198	136	97.3995	7314
112	67.0924	3976	137	98.7891	1067
113	68.2325	3781	138	100.1880	7616
114	69.3836	8156	139	101.5963	7118
115	70.5458	3372	140	103.0138	9499
116	71.7189	5428	141	104.4405	4456
117	72.9030	0053	142	105.8762	1463
118	74.0979	2705	143	107.3207	9770
119	75.3036	8575	144	108.7741	8409
120	76.5202	2587	145	110.2362	6192
121	77.7474	9396	146	111.7069	1718
122	78.9854	3397	147	113.1860	3374
123	80.2339	8717	148	114.6734	9340
124	81.4930	9225	149	116.1691	7587
125	82.7626	8527	150	117.6729	5885

$$e = 49^c$$

θ	mean anomaly		θ	mean anomaly	
150	117.6729	5885	175	157.5047	3140
151	119.1847	1805	176	159.1703	2465
152	120.7043	2720	177	160.8400	7038
153	122.2316	5808	178	162.5138	0332
154	123.7665	8059	179	164.1913	5725
155	125.3089	6275	180	165.8725	6500
156	126.8586	7072	181	167.5572	5847
157	128.4155	6888	182	169.2452	6874
158	129.9795	1983	183	170.9364	2605
159	131.5503	8440	184	172.6305	5987
160	133.1280	2176	185	174.3274	9892
161	134.7122	8938	186	176.0270	7126
162	136.3030	4309	187	177.7291	0427
163	137.9001	3715	188	179.4334	2473
164	139.5034	2422	189	181.1398	5886
165	141.1127	5546	190	182.8482	3237
166	142.7279	8051	191	184.5583	7047
167	144.3489	4759	192	186.2700	9795
168	145.9755	0347	193	187.9832	3919
169	147.6074	9358	194	189.6976	1824
170	149.2447	6196	195	191.4130	5884
171	150.8871	5138	196	193.1293	8447
172	152.5345	0335	197	194.8464	1838
173	154.1866	5814	198	196.5639	8365
174	155.8434	5485	199	198.2819	0323
175	157.5047	3140	200	200.0000	0000

$$e = 50^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	7.7731	9310
1	0.2929	2230	26	8.1220	6371
2	0.5860	1905	27	8.4753	4543
3	0.8794	6469	28	8.8331	9784
4	1.1734	3354	29	9.1957	7936
5	1.4680	9980	30	9.5632	4729
6	1.7636	3750	31	9.9357	5767
7	2.0602	2046	32	10.3134	6534
8	2.3580	2224	33	10.6965	2384
9	2.6572	1610	34	11.0850	8539
10	2.9579	7494	35	11.4793	0085
11	3.2604	7129	36	11.8793	1969
12	3.5648	7726	37	12.2852	8995
13	3.8713	6446	38	12.6973	5819
14	4.1801	0403	39	13.1156	6949
15	4.4912	6650	40	13.5403	6735
16	4.8050	2185	41	13.9715	9373
17	5.1215	3939	42	14.4094	8897
18	5.4409	8776	43	14.8541	9175
19	5.7635	3488	44	15.3058	3909
20	6.0893	4790	45	15.7645	6628
21	6.4185	9317	46	16.2305	0688
22	6.7514	3618	47	16.7037	9266
23	7.0880	4154	48	17.1845	5357
24	7.4285	7294	49	17.6729	1773
25	7.7731	9310	50	18.1690	1138

$$e = 50^c$$

θ	mean anomaly		θ	mean anomaly	
50	18.1690	1138	75	33.4108	0914
51	18.6729	5885	76	34.1453	5297
52	19.1848	8254	77	34.8902	2381
53	19.7049	0286	78	35.6454	8461
54	20.2331	3825	79	36.4111	9575
55	20.7697	0511	80	37.1874	1504
56	21.3147	1779	81	37.9741	9770
57	21.8682	8853	82	38.7715	9632
58	22.4305	2750	83	39.5796	6091
59	23.0015	4271	84	40.3984	3882
60	23.5814	4000	85	41.2279	7477
61	24.1703	2302	86	42.0683	1080
62	24.7682	9321	87	42.9194	8632
63	25.3754	4977	88	43.7815	3805
64	25.9918	8962	89	44.6545	0002
65	26.6177	0741	90	45.5384	0358
66	27.2529	9545	91	46.4332	7738
67	27.8978	4374	92	47.3391	4735
68	28.5523	3990	93	48.2560	3671
69	29.2165	6918	94	49.1839	6598
70	29.8906	1442	95	50.1229	5293
71	30.5745	5606	96	51.0730	1262
72	31.2684	7207	97	52.0341	5738
73	31.9724	3797	98	53.0063	9678
74	32.6865	2681	99	53.9897	3768
75	33.4108	0914	100	54.9841	8419

$$e = 50^c$$

θ	mean anomaly		θ	mean anomaly	
100	54.9841	8419	125	83.4108	0914
101	55.9897	3768	126	84.6865	2681
102	57.0063	9678	127	85.9724	3797
103	58.0341	5738	128	87.2684	7207
104	59.0730	1262	129	88.5745	5606
105	60.1229	5293	130	89.8906	1442
106	61.1839	6598	131	91.2165	6918
107	62.2560	3671	132	92.5523	3990
108	63.3391	4735	133	93.8978	4374
109	64.4332	7738	134	95.2529	9545
110	65.5384	0358	135	96.6177	0741
111	66.6545	0002	136	97.9918	8962
112	67.7815	3805	137	99.3754	4977
113	68.9194	8632	138	100.7682	9321
114	70.0683	1080	139	102.1703	2302
115	71.2279	7477	140	103.5814	4000
116	72.3984	3882	141	105.0015	4271
117	73.5796	6091	142	106.4305	2750
118	74.7715	9632	143	107.8682	8853
119	75.9741	9770	144	109.3147	1779
120	77.1874	1504	145	110.7697	0511
121	78.4111	9575	146	112.2331	3825
122	79.6454	8461	147	113.7049	0286
123	80.8902	2381	148	115.1848	8254
124	82.1453	5297	149	116.6729	5885
125	83.4108	0914	150	118.1690	1138

$$e = 50^c$$

θ	mean anomaly		θ	mean anomaly	
150	118.1690	1138	175	157.7731	9310
151	119.6729	1773	176	159.4285	7294
152	121.1845	5357	177	161.0880	4154
153	122.7037	9266	178	162.7514	3618
154	124.2305	0688	179	164.4185	9317
155	125.7645	6628	180	166.0893	4790
156	127.3058	3909	181	167.7635	3488
157	128.8541	9175	182	169.4409	8776
158	130.4094	8897	183	171.1215	3939
159	131.9715	9373	184	172.8050	2185
160	133.5403	6735	185	174.4912	6650
161	135.1156	6949	186	176.1801	0403
162	136.6973	5819	187	177.8713	6446
163	138.2852	8995	188	179.5648	7726
164	139.8793	1969	189	181.2604	7129
165	141.4793	0085	190	182.9579	7494
166	143.0850	8539	191	184.6572	1610
167	144.6965	2384	192	186.3580	2224
168	146.3134	6534	193	188.0602	2046
169	147.9357	5767	194	189.7636	3750
170	149.5632	4729	195	191.4680	9980
171	151.1957	7936	196	193.1734	3354
172	152.8331	9784	197	194.8794	6469
173	154.4753	4543	198	196.5860	1905
174	156.1220	6371	199	198.2929	2230
175	157.7731	9310	200	200.0000	0000

$$e = 51^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	8.0459	0525
1	0.3041	1582	26	8.4050	8368
2	0.6084	0334	27	8.7686	0340
3	0.9130	3422	28	9.1366	2144
4	1.2181	8002	29	9.5092	9374
5	1.5240	1220	30	9.8867	7508
6	1.8307	0202	31	10.2692	1905
7	2.1384	2056	32	10.6567	7804
8	2.4473	3861	33	11.0496	0314
9	2.7576	2671	34	11.4478	4418
10	3.0694	5502	35	11.8516	4963
11	3.3829	9333	36	12.2611	6658
12	3.6984	1103	37	12.6765	4074
13	4.0158	7702	38	13.0979	1634
14	4.3355	5970	39	13.5254	3616
15	4.6576	2695	40	13.9592	4145
16	4.9822	4602	41	14.3994	7191
17	5.3095	8355	42	14.8462	6565
18	5.6398	0552	43	15.2997	5917
19	5.9730	7719	44	15.7600	8730
20	6.3095	6305	45	16.2273	8322
21	6.6494	2682	46	16.7017	7834
22	6.9928	3138	47	17.1834	0237
23	7.3399	3874	48	17.6723	8319
24	7.6909	0998	49	18.1688	4690
25	8.0459	0525	50	18.6729	1773

$$e = 51^c$$

θ	mean anomaly		θ	mean anomaly	
50	18.6729	1773	75	34.0691	9451
51	19.1847	1805	76	34.8079	4069
52	19.7043	6832	77	35.5568	5040
53	20.2319	8705	78	36.3159	8559
54	20.7676	9080	79	37.0854	0569
55	21.3115	9412	80	37.8651	6758
56	21.8638	0956	81	38.6553	2561
57	22.4244	4758	82	39.4559	3156
58	22.9936	1661	83	40.2670	3462
59	23.5714	2294	84	41.0886	8140
60	24.1579	7074	85	41.9209	1590
61	24.7533	6203	86	42.7637	7953
62	25.3576	9663	87	43.6173	1104
63	25.9710	7217	88	44.4815	4659
64	26.5935	8404	89	45.3565	1966
65	27.2253	2539	90	46.2422	6110
66	27.8663	8707	91	47.1387	9912
67	28.5168	5765	92	48.0461	5923
68	29.1768	2337	93	48.9643	6429
69	29.8463	6813	94	49.8934	3449
70	30.5255	7347	95	50.8333	8732
71	31.2145	1852	96	51.7842	3760
72	31.9132	8005	97	52.7459	9746
73	32.6219	3238	98	53.7186	7633
74	33.3405	4739	99	54.7022	8096
75	34.0691	9451	100	55.6968	1538

$$e = 51^c$$

θ	mean anomaly		θ	mean anomaly	
100	55.6968	1538	125	84.0691	9451
101	56.7022	8096	126	85.3405	4739
102	57.7186	7633	127	86.6219	3238
103	58.7459	9746	128	87.9132	8005
104	59.7842	3760	129	89.2145	1852
105	60.8333	8732	130	90.5255	7347
106	61.8934	3449	131	91.8463	6813
107	62.9643	6429	132	93.1768	2337
108	64.0461	5923	133	94.5168	5765
109	65.1387	9912	134	95.8663	8707
110	66.2422	6110	135	97.2253	2539
111	67.3565	1966	136	98.5935	8404
112	68.4815	4659	137	99.9710	7217
113	69.6173	1104	138	101.3576	9663
114	70.7637	7953	139	102.7533	6203
115	71.9209	1590	140	104.1579	7074
116	73.0886	8140	141	105.5714	2294
117	74.2670	3462	142	106.9936	1661
118	75.4559	3156	143	108.4244	4758
119	76.6553	2561	144	109.8638	0956
120	77.8651	6758	145	111.3115	9412
121	79.0854	0569	146	112.7676	9080
122	80.3159	8559	147	114.2319	8705
123	81.5568	5040	148	115.7043	6832
124	82.8079	4069	149	117.1847	1805
125	84.0691	9451	150	118.6729	1773

$$e = 51^c$$

θ	mean anomaly		θ	mean anomaly	
150	118.6729	1773	175	158.0459	0525
151	120.1688	4690	176	159.6909	0998
152	121.6723	8319	177	161.3399	3874
153	123.1834	0237	178	162.9928	3138
154	124.7017	7834	179	164.6494	2682
155	126.2273	8322	180	166.3095	6305
156	127.7600	8730	181	167.9730	7719
157	129.2997	5917	182	169.6398	0552
158	130.8462	6565	183	171.3095	8355
159	132.3994	7191	184	172.9822	4602
160	133.9592	4145	185	174.6576	2695
161	135.5254	3616	186	176.3355	5970
162	137.0979	1634	187	178.0158	7702
163	138.6765	4074	188	179.6984	1103
164	140.2611	6658	189	181.3829	9333
165	141.8516	4963	190	183.0694	5502
166	143.4478	4418	191	184.7576	2671
167	145.0496	0314	192	186.4473	3861
168	146.6567	7804	193	188.1384	2056
169	148.2692	1905	194	189.8307	0202
170	149.8867	7508	195	191.5240	1220
171	151.5092	9374	196	193.2181	8002
172	153.1366	2144	197	194.9130	3422
173	154.7686	0340	198	196.6084	0334
174	156.4050	8368	199	198.3041	1582
175	158.0459	0525	200	200.0000	0000

$$e = 52^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	8.3228	0057
1	0.3154	8104	26	8.6924	4494
2	0.6311	3098	27	9.0663	5969
3	0.9471	1867	28	9.4446	9930
4	1.2636	1288	29	9.8276	1715
5	1.5807	8224	30	10.2152	6550
6	1.8987	9525	31	10.6077	9544
7	2.2178	2017	32	11.0053	5685
8	2.5380	2502	33	11.4080	9838
9	2.8595	7753	34	11.8161	6738
10	3.1826	4510	35	12.2297	0991
11	3.5073	9475	36	12.6488	7067
12	3.8339	9309	37	13.0737	9297
13	4.1626	0627	38	13.5046	1871
14	4.4933	9994	39	13.9414	8831
15	4.8265	3922	40	14.3845	4073
16	5.1621	8865	41	14.8339	1337
17	5.5005	1215	42	15.2897	4211
18	5.8416	7298	43	15.7521	6121
19	6.1858	3369	44	16.2213	0330
20	6.5331	5611	45	16.6972	9937
21	6.8838	0127	46	17.1802	7870
22	7.2379	2939	47	17.6703	6887
23	7.5956	9982	48	18.1676	9569
24	7.9572	7104	49	18.6723	8319
25	8.3228	0057	50	19.1845	5357

$$e = 52^c$$

θ	mean anomaly		θ	mean anomaly	
50	19.1845	5357	75	34.7376	7895
51	19.7043	2720	76	35.4806	9194
52	20.2318	2257	77	36.2337	0248
53	20.7671	5626	78	36.9967	7148
54	21.3104	4292	79	37.7699	5742
55	21.8617	9524	80	38.5533	1626
56	22.4213	2392	81	39.3469	0144
57	22.9891	3764	82	40.1507	6391
58	23.5653	4302	83	40.9649	5204
59	24.1500	4464	84	41.7895	1170
60	24.7433	4497	85	42.6244	8616
61	25.3453	4435	86	43.4699	1614
62	25.9561	4098	87	44.3258	3979
63	26.5758	3090	88	45.1922	9265
64	27.2045	0793	89	46.0693	0767
65	27.8422	6370	90	46.9569	1519
66	28.4891	8759	91	47.8551	4295
67	29.1453	6670	92	48.7640	1606
68	29.8108	8589	93	49.6835	5701
69	30.4858	2766	94	50.6137	8563
70	31.1702	7223	95	51.5547	1916
71	31.8642	9746	96	52.5063	7215
72	32.5679	7883	97	53.4687	5655
73	33.2813	8946	98	54.4418	8164
74	34.0046	0007	99	55.4257	5403
75	34.7376	7895	100	56.4203	7772

$$e = 52^c$$

θ	mean anomaly		θ	mean anomaly	
100	56.4203	7772	125	84.7376	7895
101	57.4257	5403	126	86.0046	0007
102	58.4418	8164	127	87.2813	8946
103	59.4687	5655	128	88.5679	7883
104	60.5063	7215	129	89.8642	9746
105	61.5547	1916	130	91.1702	7223
106	62.6137	8563	131	92.4858	2766
107	63.6835	5701	132	93.8108	8589
108	64.7640	1606	133	95.1453	6670
109	65.8551	4295	134	96.4891	8759
110	66.9569	1519	135	97.8422	6370
111	68.0693	0767	136	99.2045	0793
112	69.1922	9265	137	100.5758	3090
113	70.3258	3979	138	101.9561	4098
114	71.4699	1614	139	103.3453	4435
115	72.6244	8616	140	104.7433	4497
116	73.7895	1170	141	106.1500	4464
117	74.9649	5204	142	107.5653	4302
118	76.1507	6391	143	108.9891	3764
119	77.3469	0144	144	110.4213	2392
120	78.5533	1626	145	111.8617	9524
121	79.7699	5742	146	113.3104	4292
122	80.9967	7148	147	114.7671	5626
123	82.2337	0248	148	116.2318	2257
124	83.4806	9194	149	117.7043	2720
125	84.7376	7895	150	119.1845	5357

$$e = 52^c$$

θ	mean anomaly		θ	mean anomaly	
150	119.1845	5357	175	158.3228	0057
151	120.6723	8319	176	159.9572	7104
152	122.1676	9569	177	161.5956	9982
153	123.6703	6887	178	163.2379	2939
154	125.1802	7870	179	164.8838	0127
155	126.6972	9937	180	166.5331	5611
156	128.2213	0330	181	168.1858	3369
157	129.7521	6121	182	169.8416	7298
158	131.2897	4211	183	171.5005	1215
159	132.8339	1337	184	173.1621	8865
160	134.3845	4073	185	174.8265	3922
161	135.9414	8831	186	176.4933	9994
162	137.5046	1871	187	178.1626	0627
163	139.0737	9297	188	179.8339	9309
164	140.6488	7067	189	181.5073	9475
165	142.2297	0991	190	183.1826	4510
166	143.8161	6738	191	184.8595	7753
167	145.4080	9838	192	186.5380	2502
168	147.0053	5685	193	188.2178	2017
169	148.6077	9544	194	189.8987	9525
170	150.2152	6550	195	191.5807	8224
171	151.8276	1715	196	193.2636	1288
172	153.4446	9930	197	194.9471	1867
173	155.0663	5969	198	196.6311	3098
174	156.6924	4494	199	198.3154	8104
175	158.3228	0057	200	200.0000	0000

$$e = 53^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	8.6038	1074
1	0.3270	1516	26	8.9840	7658
2	0.6541	9637	27	9.3685	4084
3	0.9817	0964	28	9.7573	5540
4	1.3097	2089	29	10.1506	7107
5	1.6383	9593	30	10.5486	3752
6	1.9679	0039	31	10.9514	0331
7	2.2983	9972	32	11.3591	1578
8	2.6300	5909	33	11.7719	2109
9	2.9630	4342	34	12.1899	6411
10	3.2975	1727	35	12.6133	8842
11	3.6336	4486	36	13.0423	3630
12	3.9715	8999	37	13.4769	4864
13	4.3115	1601	38	13.9173	6494
14	4.6535	8578	39	14.3637	2327
15	4.9979	6164	40	14.8161	6023
16	5.3448	0536	41	15.2748	1093
17	5.6942	7808	42	15.7398	0893
18	6.0465	4032	43	16.2112	8624
19	6.4017	5190	44	16.6893	7327
20	6.7600	7191	45	17.1741	9878
21	7.1216	5867	46	17.6658	8990
22	7.4866	6971	47	18.1645	7203
23	7.8552	6169	48	18.6703	6887
24	8.2275	9041	49	19.1834	0237
25	8.6038	1074	50	19.7037	9266

$$e = 53^c$$

θ	mean anomaly		θ	mean anomaly	
50	19.7037	9266	75	35.4160	9751
51	20.2316	5808	76	36.1634	4073
52	20.7671	1514	77	36.9206	1302
53	21.3102	7844	78	37.6876	7431
54	21.8612	6070	79	38.4646	8205
55	22.4201	7272	80	39.2516	9129
56	22.9871	2332	81	40.0487	5455
57	23.5622	1936	82	40.8559	2192
58	24.1455	6567	83	41.6732	4098
59	24.7372	6505	84	42.5007	5680
60	25.3374	1825	85	43.3385	1194
61	25.9461	2393	86	44.1865	4642
62	26.5634	7862	87	45.0448	9775
63	27.1895	7675	88	45.9136	0087
64	27.8245	1056	89	46.7926	8818
65	28.4683	7013	90	47.6821	8952
66	29.1212	4333	91	48.5821	3214
67	29.7832	1582	92	49.4925	4073
68	30.4543	7099	93	50.4134	3740
69	31.1347	8998	94	51.3448	4168
70	31.8245	5165	95	52.2867	7047
71	32.5237	3254	96	53.2392	3811
72	33.2324	0687	97	54.2022	5633
73	33.9506	4652	98	55.1758	3426
74	34.6785	2102	99	56.1599	7840
75	35.4160	9751	100	57.1546	9268

$$e = 53^c$$

θ	mean anomaly		θ	mean anomaly	
100	57.1546	9268	125	85.4160	9751
101	58.1599	7840	126	86.6785	2102
102	59.1758	3426	127	87.9506	4652
103	60.2022	5633	128	89.2324	0687
104	61.2392	3811	129	90.5237	3254
105	62.2867	7047	130	91.8245	5165
106	63.3448	4168	131	93.1347	8998
107	64.4134	3740	132	94.4543	7099
108	65.4925	4073	133	95.7832	1582
109	66.5821	3214	134	97.1212	4333
110	67.6821	8952	135	98.4683	7013
111	68.7926	8818	136	99.8245	1056
112	69.9136	0087	137	101.1895	7675
113	71.0448	9775	138	102.5634	7862
114	72.1865	4642	139	103.9461	2393
115	73.3385	1194	140	105.3374	1825
116	74.5007	5680	141	106.7372	6505
117	75.6732	4098	142	108.1455	6567
118	76.8559	2192	143	109.5622	1936
119	78.0487	5455	144	110.9871	2332
120	79.2516	9129	145	112.4201	7272
121	80.4646	8205	146	113.8612	6070
122	81.6876	7431	147	115.3102	7844
123	82.9206	1302	148	116.7671	1514
124	84.1634	4073	149	118.2316	5808
125	85.4160	9751	150	119.7037	9266

$$e = 53^c$$

θ	mean anomaly		θ	mean anomaly	
150	119.7037	9266	175	158.6038	1074
151	121.1834	0237	176	160.2275	9041
152	122.6703	6887	177	161.8552	6169
153	124.1645	7203	178	163.4866	6971
154	125.6658	8990	179	165.1216	5867
155	127.1741	9878	180	166.7600	7191
156	128.6893	7327	181	168.4017	5190
157	130.2112	8624	182	170.0465	4032
158	131.7398	0893	183	171.6942	7808
159	133.2748	1093	184	173.3448	0536
160	134.8161	6023	185	174.9979	6164
161	136.3637	2327	186	176.6535	8578
162	137.9173	6494	187	178.3115	1601
163	139.4769	4864	188	179.9715	8999
164	141.0423	3630	189	181.6336	4486
165	142.6133	8842	190	183.2975	1727
166	144.1899	6411	191	184.9630	4342
167	145.7719	2109	192	186.6300	5909
168	147.3591	1578	193	188.2983	9972
169	148.9514	0331	194	189.9679	0039
170	150.5486	3752	195	191.6383	9593
171	152.1506	7107	196	193.3097	2089
172	153.7573	5540	197	194.9817	0964
173	155.3685	4084	198	196.6541	9637
174	156.9840	7658	199	198.3270	1516
175	158.6038	1074	200	200.0000	0000

$$e = 54^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	8.8888	6642
1	0.3387	1533	26	9.2799	0664
2	0.6775	9382	27	9.6750	7229
3	1.0167	9860	28	10.0745	1261
4	1.3564	9270	29	10.4783	7577
5	1.6968	3905	30	10.8868	0887
6	2.0380	0040	31	11.2999	5786
7	2.3801	3931	32	11.7179	6754
8	2.7234	1811	33	12.1409	8151
9	3.0679	9883	34	12.5691	4213
10	3.4140	4318	35	13.0025	9050
11	3.7617	1251	36	13.4414	6639
12	4.1111	6778	37	13.8859	0827
13	4.4625	6951	38	14.3360	5320
14	4.8160	7772	39	14.7920	3686
15	5.1718	5192	40	15.2539	9347
16	5.5300	5107	41	15.7220	5579
17	5.8908	3353	42	16.1963	5506
18	6.2543	5700	43	16.6770	2099
19	6.6207	7854	44	17.1641	8173
20	6.9902	5447	45	17.6579	6380
21	7.3629	4035	46	18.1584	9211
22	7.7389	9098	47	18.6658	8990
23	8.1185	6029	48	19.1802	7870
24	8.5018	0138	49	19.7017	7834
25	8.8888	6642	50	20.2305	0688

$$e = 54^c$$

θ	mean anomaly		θ	mean anomaly	
50	20.2305	0688	75	36.1042	8281
51	20.7665	8059	76	36.8560	1859
52	21.3101	1395	77	37.6174	1256
53	21.8612	1958	78	38.3885	2359
54	22.4200	0823	79	39.1694	0817
55	22.9865	8878	80	39.9601	2035
56	23.5610	6816	81	40.7607	1177
57	24.1435	5135	82	41.5712	3163
58	24.7341	4139	83	42.3917	2668
59	25.3329	3928	84	43.2222	4122
60	25.9400	4401	85	44.0628	1706
61	26.5555	5252	86	44.9134	9354
62	27.1795	5969	87	45.7743	0750
63	27.8121	5828	88	46.6452	9328
64	28.4534	3894	89	47.5264	8272
65	29.1034	9019	90	48.4179	0513
66	29.7623	9836	91	49.3195	8729
67	30.4302	4762	92	50.2315	5348
68	31.1071	1992	93	51.1538	2540
69	31.7930	9498	94	52.0864	2224
70	32.4882	5029	95	53.0293	6063
71	33.1926	6107	96	53.9826	5465
72	33.9064	0023	97	54.9463	1581
73	34.6295	3843	98	55.9203	5310
74	35.3621	4396	99	56.9047	7291
75	36.1042	8281	100	57.8995	7908

$$e = 54^c$$

θ	mean anomaly		θ	mean anomaly	
100	57.8995	7908	125	86.1042	8281
101	58.9047	7291	126	87.3621	4396
102	59.9203	5310	127	88.6295	3843
103	60.9463	1581	128	89.9064	0023
104	61.9826	5465	129	91.1926	6107
105	63.0293	6063	130	92.4882	5029
106	64.0864	2224	131	93.7930	9498
107	65.1538	2540	132	95.1071	1992
108	66.2315	5348	133	96.4302	4762
109	67.3195	8729	134	97.7623	9836
110	68.4179	0513	135	99.1034	9019
111	69.5264	8272	136	100.4534	3894
112	70.6452	9328	137	101.8121	5828
113	71.7743	0750	138	103.1795	5969
114	72.9134	9354	139	104.5555	5252
115	74.0628	1706	140	105.9400	4401
116	75.2222	4122	141	107.3329	3928
117	76.3917	2668	142	108.7341	4139
118	77.5712	3163	143	110.1435	5135
119	78.7607	1177	144	111.5610	6816
120	79.9601	2035	145	112.9865	8878
121	81.1694	0817	146	114.4200	0823
122	82.3885	2359	147	115.8612	1958
123	83.6174	1256	148	117.3101	1395
124	84.8560	1859	149	118.7665	8059
125	86.1042	8281	150	120.2305	0688

$$e = 54^c$$

θ	mean anomaly		θ	mean anomaly	
150	120.2305	0688	175	158.8888	6642
151	121.7017	7834	176	160.5018	0138
152	123.1802	7870	177	162.1185	6029
153	124.6658	8990	178	163.7389	9098
154	126.1584	9211	179	165.3629	4035
155	127.6579	6380	180	166.9902	5447
156	129.1641	8173	181	168.6207	7854
157	130.6770	2099	182	170.2543	5700
158	132.1963	5506	183	171.8908	3353
159	133.7220	5579	184	173.5300	5107
160	135.2539	9347	185	175.1718	5192
161	136.7920	3686	186	176.8160	7772
162	138.3360	5320	187	178.4625	6951
163	139.8859	0827	188	180.1111	6778
164	141.4414	6639	189	181.7617	1251
165	143.0025	9050	190	183.4140	4318
166	144.5691	4213	191	185.0679	9883
167	146.1409	8151	192	186.7234	1811
168	147.7179	6754	193	188.3801	3931
169	149.2999	5786	194	190.0380	0040
170	150.8868	0887	195	191.6968	3905
171	152.4783	7577	196	193.3564	9270
172	154.0745	1261	197	195.0167	9860
173	155.6750	7229	198	196.6775	9382
174	157.2799	0664	199	198.3387	1533
175	158.8888	6642	200	200.0000	0000

$$e = 55^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	9.1778	9728
1	0.3505	7866	26	9.5798	6213
2	0.7013	1755	27	9.9858	7840
3	1.0523	7688	28	10.3960	9266
4	1.4039	1675	29	10.8106	5041
5	1.7560	9716	30	11.2296	9611
6	2.1090	7796	31	11.6533	7310
7	2.4630	1879	32	12.0818	2359
8	2.8180	7905	33	12.5151	8859
9	3.1744	1787	34	12.9536	0790
10	3.5321	9407	35	13.3972	2010
11	3.8915	6610	36	13.8461	6247
12	4.2526	9203	37	14.3005	7096
13	4.6157	2949	38	14.7605	8019
14	4.9808	3565	39	15.2263	2340
15	5.3481	6715	40	15.6979	3242
16	5.7178	8009	41	16.1755	3760
17	6.0901	2999	42	16.6592	6785
18	6.4650	7175	43	17.1492	5054
19	6.8428	5957	44	17.6456	1153
20	7.2236	4698	45	18.1484	7506
21	7.6075	8677	46	18.6579	6380
22	7.9948	3094	47	19.1741	9878
23	8.3855	3067	48	19.6972	9937
24	8.7798	3630	49	20.2273	8322
25	9.1778	9728	50	20.7645	6628

$$e = 55^c$$

θ	mean anomaly		θ	mean anomaly	
50	20.7645	6628	75	36.8020	6504
51	21.3089	6275	76	37.5582	5464
52	21.8606	8504	77	38.3239	2916
53	22.4198	4375	78	39.0991	4642
54	22.9865	4766	79	39.8839	6189
55	23.5609	0367	80	40.6784	2865
56	24.1430	1681	81	41.4825	9743
57	24.7329	9019	82	42.2965	1653
58	25.3309	2496	83	43.1202	3187
59	25.9369	2035	84	43.9537	8695
60	26.5510	7355	85	44.7972	2283
61	27.1734	7977	86	45.6505	7815
62	27.8042	3218	87	46.5138	8908
63	28.4434	2189	88	47.3871	8935
64	29.0911	3791	89	48.2705	1023
65	29.7474	6718	90	49.1638	8050
66	30.4124	9448	91	50.0673	2647
67	31.0863	0246	92	50.9808	7196
68	31.7689	7161	93	51.9045	3831
69	32.4605	8023	94	52.8383	4436
70	33.1612	0440	95	53.7823	0642
71	33.8709	1799	96	54.7364	3833
72	34.5897	9262	97	55.7007	5141
73	35.3178	9767	98	56.6752	5446
74	36.0553	0021	99	57.6599	5378
75	36.8020	6504	100	58.6548	5313

$$e = 55^c$$

θ	mean anomaly		θ	mean anomaly	
100	58.6548	5313	125	86.8020	6504
101	59.6599	5378	126	88.0553	0021
102	60.6752	5446	127	89.3178	9767
103	61.7007	5141	128	90.5897	9262
104	62.7364	3833	129	91.8709	1799
105	63.7823	0642	130	93.1612	0440
106	64.8383	4436	131	94.4605	8023
107	65.9045	3831	132	95.7689	7161
108	66.9808	7196	133	97.0863	0246
109	68.0673	2647	134	98.4124	9448
110	69.1638	8050	135	99.7474	6718
111	70.2705	1023	136	101.0911	3791
112	71.3871	8935	137	102.4434	2189
113	72.5138	8908	138	103.8042	3218
114	73.6505	7815	139	105.1734	7977
115	74.7972	2283	140	106.5510	7355
116	75.9537	8695	141	107.9369	2035
117	77.1202	3187	142	109.3309	2496
118	78.2965	1653	143	110.7329	9019
119	79.4825	9743	144	112.1430	1681
120	80.6784	2865	145	113.5609	0367
121	81.8839	6189	146	114.9865	4766
122	83.0991	4642	147	116.4198	4375
123	84.3239	2916	148	117.8606	8504
124	85.5582	5464	149	119.3089	6275
125	86.8020	6504	150	120.7645	6628

$$e = 55^c$$

θ	mean anomaly		θ	mean anomaly	
150	120.7645	6628	175	159.1778	9728
151	122.2273	8322	176	160.7798	3630
152	123.6972	9937	177	162.3855	3067
153	125.1741	9878	178	163.9948	3094
154	126.6579	6380	179	165.6075	8677
155	128.1484	7506	180	167.2236	4698
156	129.6456	1153	181	168.8428	5957
157	131.1492	5054	182	170.4650	7175
158	132.6592	6785	183	172.0901	2999
159	134.1755	3760	184	173.7178	8009
160	135.6979	3242	185	175.3481	6715
161	137.2263	2340	186	176.9808	3565
162	138.7605	8019	187	178.6157	2949
163	140.3005	7096	188	180.2526	9203
164	141.8461	6247	189	181.8915	6610
165	143.3972	2010	190	183.5321	9407
166	144.9536	0790	191	185.1744	1787
167	146.5151	8859	192	186.8180	7905
168	148.0818	2359	193	188.4630	1879
169	149.6533	7310	194	190.1090	7796
170	151.2296	9611	195	191.7560	9716
171	152.8106	5041	196	193.4039	1675
172	154.3960	9266	197	195.0523	7688
173	155.9858	7840	198	196.7013	1755
174	157.5798	6213	199	198.3505	7866
175	159.1778	9728	200	200.0000	0000

$$e = 56^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	9.4708	3202
1	0.3626	0222	26	9.8838	6905
2	0.7253	6171	27	10.3008	8250
3	1.0884	3570	28	10.7220	1621
4	1.4519	8134	29	11.1474	1300
5	1.8161	5567	30	11.5772	1464
6	2.1811	1556	31	12.0115	6184
7	2.5470	1770	32	12.4505	9415
8	2.9140	1855	33	12.8944	4998
9	3.2822	7429	34	13.3432	6656
10	3.6519	4079	35	13.7971	7987
11	4.0231	7358	36	14.2563	2467
12	4.3961	2780	37	14.7208	3439
13	4.7709	5816	38	15.1908	4116
14	5.1478	1892	39	15.6664	7575
15	5.5268	6382	40	16.1478	6753
16	5.9082	4607	41	16.6351	4448
17	6.2921	1831	42	17.1284	3309
18	6.6786	3256	43	17.6278	5838
19	7.0679	4019	44	18.1335	4387
20	7.4601	9187	45	18.6456	1153
21	7.8555	3757	46	19.1641	8173
22	8.2541	2646	47	19.6893	7327
23	8.6561	0695	48	20.2213	0330
24	9.0616	2657	49	20.7600	8730
25	9.4708	3202	50	21.3058	3909

$$e = 56^c$$

θ	mean anomaly		θ	mean anomaly	
50	21.3058	3909	75	37.5092	7204
51	21.8586	7072	76	38.2699	7561
52	22.4186	9255	77	39.0399	8850
53	22.9860	1312	78	39.8193	6745
54	23.5607	3919	79	40.6081	6690
55	24.1429	7569	80	41.4064	3897
56	24.7328	2570	81	42.2142	3341
57	25.3303	9042	82	43.0315	9767
58	25.9357	6914	83	43.8585	7679
59	26.5490	5923	84	44.6952	1348
60	27.1703	5611	85	45.5415	4803
61	27.7997	5321	86	46.3976	1836
62	28.4373	4197	87	47.2634	5999
63	29.0832	1182	88	48.1391	0602
64	29.7374	5012	89	49.0245	8713
65	30.4001	4220	90	49.9199	3157
66	31.0713	7128	91	50.8251	6517
67	31.7512	1847	92	51.7403	1130
68	32.4397	6277	93	52.6653	9092
69	33.1370	8103	94	53.6004	2249
70	33.8432	4792	95	54.5454	2206
71	34.5583	3595	96	55.5004	0319
72	35.2824	1542	97	56.4653	7698
73	36.0155	5441	98	57.4403	5209
74	36.7578	1875	99	58.4253	3469
75	37.5092	7204	100	59.4203	2847

$$e = 56^c$$

θ	mean anomaly		θ	mean anomaly	
100	59.4203	2847	125	87.5092	7204
101	60.4253	3469	126	88.7578	1875
102	61.4403	5209	127	90.0155	5441
103	62.4653	7698	128	91.2824	1542
104	63.5004	0319	129	92.5583	3595
105	64.5454	2206	130	93.8432	4792
106	65.6004	2249	131	95.1370	8103
107	66.6653	9092	132	96.4397	6277
108	67.7403	1130	133	97.7512	1847
109	68.8251	6517	134	99.0713	7128
110	69.9199	3157	135	100.4001	4220
111	71.0245	8713	136	101.7374	5012
112	72.1391	0602	137	103.0832	1182
113	73.2634	5999	138	104.4373	4197
114	74.3976	1836	139	105.7997	5321
115	75.5415	4803	140	107.1703	5611
116	76.6952	1348	141	108.5490	5923
117	77.8585	7679	142	109.9357	6914
118	79.0315	9767	143	111.3303	9042
119	80.2142	3341	144	112.7328	2570
120	81.4064	3897	145	114.1429	7569
121	82.6081	6690	146	115.5607	3919
122	83.8193	6745	147	116.9860	1312
123	85.0399	8850	148	118.4186	9255
124	86.2699	7561	149	119.8586	7072
125	87.5092	7204	150	121.3058	3909

$$e = 56^c$$

θ	mean anomaly		θ	mean anomaly	
150	121.3058	3909	175	159.4708	3202
151	122.7600	8730	176	161.0616	2657
152	124.2213	0330	177	162.6561	0695
153	125.6893	7327	178	164.2541	2646
154	127.1641	8173	179	165.8555	3757
155	128.6456	1153	180	167.4601	9187
156	130.1335	4387	181	169.0679	4019
157	131.6278	5838	182	170.6786	3256
158	133.1284	3309	183	172.2921	1831
159	134.6351	4448	184	173.9082	4607
160	136.1478	6753	185	175.5268	6382
161	137.6664	7575	186	177.1478	1892
162	139.1908	4116	187	178.7709	5816
163	140.7208	3439	188	180.3961	2780
164	142.2563	2467	189	182.0231	7358
165	143.7971	7987	190	183.6519	4079
166	145.3432	6656	191	185.2822	7429
167	146.8944	4998	192	186.9140	1855
168	148.4505	9415	193	188.5470	1770
169	150.0115	6184	194	190.1811	1556
170	151.5772	1464	195	191.8161	5567
171	153.1474	1300	196	193.4519	8134
172	154.7220	1621	197	195.0884	3570
173	156.3008	8250	198	196.7253	6171
174	157.8838	6905	199	198.3626	0222
175	159.4708	3202	200	200.0000	0000

$$e = 57^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	9.7675	9834
1	0.3747	8306	26	10.1918	5238
2	0.7497	2037	27	10.6200	0685
3	1.1249	6618	28	11.0522	0284
4	1.5006	7462	29	11.4885	8044
5	1.8769	9974	30	11.9292	7873
6	2.2540	9540	31	12.3744	3569
7	2.6321	1532	32	12.8241	8823
8	3.0112	1294	33	13.2786	7212
9	3.3915	4147	34	13.7380	2195
10	3.7732	5381	35	14.2023	7112
11	4.1565	0250	36	14.6718	5179
12	4.5414	3972	37	15.1465	9487
13	4.9282	1723	38	15.6267	2994
14	5.3169	8633	39	16.1123	8529
15	5.7078	9784	40	16.6036	8781
16	6.1011	0203	41	17.1007	6302
17	6.4967	4863	42	17.6037	3501
18	6.8949	8675	43	18.1127	2642
19	7.2959	6486	44	18.6278	5838
20	7.6998	3077	45	19.1492	5054
21	8.1067	3156	46	19.6770	2099
22	8.5168	1358	47	20.2112	8624
23	8.9302	2237	48	20.7521	6121
24	9.3471	0266	49	21.2997	5917
25	9.7675	9834	50	21.8541	9175

$$e = 57^c$$

θ	mean anomaly		θ	mean anomaly	
50	21.8541	9175	75	38.2257	2932
51	22.4155	6888	76	38.9910	0590
52	22.9839	9880	77	39.7654	1390
53	23.5595	8798	78	40.5490	0898
54	24.1424	4115	79	41.3418	4453
55	24.7326	6122	80	42.1439	7166
56	25.3303	4930	81	42.9554	3921
57	25.9356	0466	82	43.7762	9368
58	26.5485	2469	83	44.6065	7927
59	27.1692	0491	84	45.4463	3787
60	27.7977	3889	85	46.2956	0901
61	28.4342	1831	86	47.1544	2988
62	29.0787	3284	87	48.0228	3531
63	29.7313	7020	88	48.9008	5777
64	30.3922	1610	89	49.7885	2736
65	31.0613	5422	90	50.6858	7180
66	31.7388	6619	91	51.5929	1641
67	32.4248	3158	92	52.5096	8412
68	33.1193	2788	93	53.4361	9548
69	33.8224	3046	94	54.3724	6862
70	34.5342	1258	95	55.3185	1926
71	35.2547	4536	96	56.2743	6071
72	35.9840	9774	97	57.2400	0387
73	36.7223	3650	98	58.2154	5721
74	37.4695	2624	99	59.2007	2679
75	38.2257	2932	100	60.1958	1624

$$e = 57^c$$

θ	mean anomaly		θ	mean anomaly	
100	60.1958	1624	125	88.2257	2932
101	61.2007	2679	126	89.4695	2624
102	62.2154	5721	127	90.7223	3650
103	63.2400	0387	128	91.9840	9774
104	64.2743	6071	129	93.2547	4536
105	65.3185	1926	130	94.5342	1258
106	66.3724	6862	131	95.8224	3046
107	67.4361	9548	132	97.1193	2788
108	68.5096	8412	133	98.4248	3158
109	69.5929	1641	134	99.7388	6619
110	70.6858	7180	135	101.0613	5422
111	71.7885	2736	136	102.3922	1610
112	72.9008	5777	137	103.7313	7020
113	74.0228	3531	138	105.0787	3284
114	75.1544	2988	139	106.4342	1831
115	76.2956	0901	140	107.7977	3889
116	77.4463	3787	141	109.1692	0491
117	78.6065	7927	142	110.5485	2469
118	79.7762	9368	143	111.9356	0466
119	80.9554	3921	144	113.3303	4930
120	82.1439	7166	145	114.7326	6122
121	83.3418	4453	146	116.1424	4115
122	84.5490	0898	147	117.5595	8798
123	85.7654	1390	148	118.9839	9880
124	86.9910	0590	149	120.4155	6888
125	88.2257	2932	150	121.8541	9175

$$e = 57^c$$

θ	mean anomaly		θ	mean anomaly	
150	121.8541	9175	175	159.7675	9834
151	123.2997	5917	176	161.3471	0266
152	124.7521	6121	177	162.9302	2237
153	126.2112	8624	178	164.5168	1358
154	127.6770	2099	179	166.1067	3156
155	129.1492	5054	180	167.6998	3077
156	130.6278	5838	181	169.2959	6486
157	132.1127	2642	182	170.8949	8675
158	133.6037	3501	183	172.4967	4863
159	135.1007	6302	184	174.1011	0203
160	136.6036	8781	185	175.7078	9784
161	138.1123	8529	186	177.3169	8633
162	139.6267	2994	187	178.9282	1723
163	141.1465	9487	188	180.5414	3972
164	142.6718	5179	189	182.1565	0250
165	144.2023	7112	190	183.7732	5381
166	145.7380	2195	191	185.3915	4147
167	147.2786	7212	192	187.0112	1294
168	148.8241	8823	193	188.6321	1532
169	150.3744	3569	194	190.2540	9540
170	151.9292	7873	195	191.8769	9974
171	153.4885	8044	196	193.5006	7462
172	155.0522	0284	197	195.1249	6618
173	156.6200	0685	198	196.7497	2037
174	158.1918	5238	199	198.3747	8306
175	159.7675	9834	200	200.0000	0000

$$e = 58^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	10.0681	2303
1	0.3871	1815	26	10.5037	3614
2	0.7743	8752	27	10.9431	7272
3	1.1619	5929	28	11.3865	7109
4	1.5499	8457	29	11.8340	6857
5	1.9386	1436	30	12.2858	0149
6	2.3279	9950	31	12.7419	0512
7	2.7182	9064	32	13.2025	1366
8	3.1096	3824	33	13.6677	6020
9	3.5021	9246	34	14.1377	7668
10	3.8961	0318	35	14.6126	9387
11	4.2915	1994	36	15.0926	4132
12	4.6885	9193	37	15.5777	4735
13	5.0874	6789	38	16.0681	3900
14	5.4882	9615	39	16.5639	4200
15	5.8912	2455	40	17.0652	8077
16	6.2964	0040	41	17.5722	7834
17	6.7039	7047	42	18.0850	5635
18	7.1140	8094	43	18.6037	3501
19	7.5268	7733	44	19.1284	3309
20	7.9425	0456	45	19.6592	6785
21	8.3611	0678	46	20.1963	5506
22	8.7828	2747	47	20.7398	0893
23	9.2078	0929	48	21.2897	4211
24	9.6361	9413	49	21.8462	6565
25	10.0681	2303	50	22.4094	8897

$$e = 58^c$$

θ	mean anomaly		θ	mean anomaly	
50	22.4094	8897	75	38.9512	6010
51	22.9795	1983	76	39.7211	6761
52	23.5564	6432	77	40.5000	2639
53	24.1404	2683	78	41.2878	9098
54	24.7315	1001	79	42.0848	1374
55	25.3298	1476	80	42.8908	4477
56	25.9354	4017	81	43.7060	3193
57	26.5484	8357	82	44.5304	2081
58	27.1690	4042	83	45.3640	5476
59	27.7972	0435	84	46.2069	7481
60	28.4330	6711	85	47.0592	1972
61	29.0767	1853	86	47.9208	2596
62	29.7282	4654	87	48.7918	2766
63	30.3877	3713	88	49.6722	5665
64	31.0552	7430	89	50.5621	4244
65	31.7309	4009	90	51.4615	1220
66	32.4148	1453	91	52.3703	9075
67	33.1069	7561	92	53.2888	0059
68	33.8074	9928	93	54.2167	6183
69	34.5164	5944	94	55.1542	9225
70	35.2339	2790	95	56.1014	0727
71	35.9599	7437	96	57.0581	1994
72	36.6946	6644	97	58.0244	4093
73	37.4380	6957	98	59.0003	7856
74	38.1902	4707	99	59.9859	3876
75	38.9512	6010	100	60.9811	2510

$$e = 58^c$$

θ	mean anomaly		θ	mean anomaly	
100	60.9811	2510	125	88.9512	6010
101	61.9859	3876	126	90.1902	4707
102	63.0003	7856	127	91.4380	6957
103	64.0244	4093	128	92.6946	6644
104	65.0581	1994	129	93.9599	7437
105	66.1014	0727	130	95.2339	2790
106	67.1542	9225	131	96.5164	5944
107	68.2167	6183	132	97.8074	9928
108	69.2888	0059	133	99.1069	7561
109	70.3703	9075	134	100.4148	1453
110	71.4615	1220	135	101.7309	4009
111	72.5621	4244	136	103.0552	7430
112	73.6722	5665	137	104.3877	3713
113	74.7918	2766	138	105.7282	4654
114	75.9208	2596	139	107.0767	1853
115	77.0592	1972	140	108.4330	6711
116	78.2069	7481	141	109.7972	0435
117	79.3640	5476	142	111.1690	4042
118	80.5304	2081	143	112.5484	8357
119	81.7060	3193	144	113.9354	4017
120	82.8908	4477	145	115.3298	1476
121	84.0848	1374	146	116.7315	1001
122	85.2878	9098	147	118.1404	2683
123	86.5000	2639	148	119.5564	6432
124	87.7211	6761	149	120.9795	1983
125	88.9512	6010	150	122.4094	8897

$$e = 58^c$$

θ	mean anomaly		θ	mean anomaly	
150	122.4094	8897	175	160.0681	2303
151	123.8462	6565	176	161.6361	9413
152	125.2897	4211	177	163.2078	0929
153	126.7398	0893	178	164.7828	2747
154	128.1963	5506	179	166.3611	0678
155	129.6592	6785	180	167.9425	0456
156	131.1284	3309	181	169.5268	7733
157	132.6037	3501	182	171.1140	8094
158	134.0850	5635	183	172.7039	7047
159	135.5722	7834	184	174.2964	0040
160	137.0652	8077	185	175.8912	2455
161	138.5639	4200	186	177.4882	9615
162	140.0681	3900	187	179.0874	6789
163	141.5777	4735	188	180.6885	9193
164	143.0926	4132	189	182.2915	1994
165	144.6126	9387	190	183.8961	0318
166	146.1377	7668	191	185.5021	9246
167	147.6677	6020	192	187.1096	3824
168	149.2025	1366	193	188.7182	9064
169	150.7419	0512	194	190.3279	9950
170	152.2858	0149	195	191.9386	1436
171	153.8340	6857	196	193.5499	8457
172	155.3865	7109	197	195.1619	5929
173	156.9431	7272	198	196.7743	8752
174	158.5037	3614	199	198.3871	1815
175	160.0681	2303	200	200.0000	0000

$$e = 59^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	10.3723	3193
1	0.3996	0447	26	10.8194	4337
2	0.7993	5707	27	11.2703	0038
3	1.1994	0591	28	11.7250	3845
4	1.5998	9903	29	12.1837	9213
5	2.0009	8433	30	12.6466	9496
6	2.4028	0960	31	13.1138	7946
7	2.8055	2242	32	13.5854	7708
8	3.2092	7016	33	14.0616	1822
9	3.6141	9995	34	14.5424	3212
10	4.0204	5860	35	15.0280	4688
11	4.4281	9261	36	15.5185	8943
12	4.8375	4811	37	16.0141	8545
13	5.2486	7085	38	16.5149	5941
14	5.6617	0611	39	17.0210	3448
15	6.0767	9872	40	17.5325	3254
16	6.4940	9299	41	18.0495	7410
17	6.9137	3271	42	18.5722	7834
18	7.3358	6106	43	19.1007	6302
19	7.7606	2063	44	19.6351	4448
20	8.1881	5334	45	20.1755	3760
21	8.6186	0046	46	20.7220	5579
22	9.0521	0250	47	21.2748	1093
23	9.4887	9923	48	21.8339	1337
24	9.9288	2966	49	22.3994	7191
25	10.3723	3193	50	22.9715	9373

$$e = 59^c$$

θ	mean anomaly		θ	mean anomaly	
50	22.9715	9373	75	39.6856	8537
51	23.5503	8440	76	40.4602	8058
52	24.1359	4786	77	41.2436	4469
53	24.7283	8635	78	42.0358	3115
54	25.3278	0044	79	42.8368	9122
55	25.9342	8897	80	43.6468	7400
56	26.5479	4903	81	44.4658	2638
57	27.1688	7594	82	45.2937	9301
58	27.7971	6323	83	46.1308	1635
59	28.4329	0262	84	46.9769	3661
60	29.0761	8399	85	47.8321	9175
61	29.7270	9534	86	48.6966	1750
62	30.3857	2281	87	49.5702	4730
63	31.0521	5064	88	50.4531	1233
64	31.7264	6112	89	51.3452	4149
65	32.4087	3461	90	52.2466	6140
66	33.0990	4951	91	53.1573	9638
67	33.7974	8222	92	54.0774	6846
68	34.5041	0716	93	55.0068	9735
69	35.2189	9672	94	55.9457	0048
70	35.9422	2122	95	56.8938	9293
71	36.6738	4898	96	57.8514	8749
72	37.4139	4620	97	58.8184	9463
73	38.1625	7701	98	59.7949	2249
74	38.9198	0343	99	60.7807	7688
75	39.6856	8537	100	61.7760	6128

$$e = 59^c$$

θ	mean anomaly		θ	mean anomaly	
100	61.7760	6128	125	89.6856	8537
101	62.7807	7688	126	90.9198	0343
102	63.7949	2249	127	92.1625	7701
103	64.8184	9463	128	93.4139	4620
104	65.8514	8749	129	94.6738	4898
105	66.8938	9293	130	95.9422	2122
106	67.9457	0048	131	97.2189	9672
107	69.0068	9735	132	98.5041	0716
108	70.0774	6846	133	99.7974	8222
109	71.1573	9638	134	101.0990	4951
110	72.2466	6140	135	102.4087	3461
111	73.3452	4149	136	103.7264	6112
112	74.4531	1233	137	105.0521	5064
113	75.5702	4730	138	106.3857	2281
114	76.6966	1750	139	107.7270	9534
115	77.8321	9175	140	109.0761	8399
116	78.9769	3661	141	110.4329	0262
117	80.1308	1635	142	111.7971	6323
118	81.2937	9301	143	113.1688	7594
119	82.4658	2638	144	114.5479	4903
120	83.6468	7400	145	115.9342	8897
121	84.8368	9122	146	117.3278	0044
122	86.0358	3115	147	118.7283	8635
123	87.2436	4469	148	120.1359	4786
124	88.4602	8058	149	121.5503	8440
125	89.6856	8537	150	122.9715	9373

$$e = 59^c$$

θ	mean anomaly		θ	mean anomaly	
150	122.9715	9373	175	160.3723	3193
151	124.3994	7191	176	161.9288	2966
152	125.8339	1337	177	163.4887	9923
153	127.2748	1093	178	165.0521	0250
154	128.7220	5579	179	166.6186	0046
155	130.1755	3760	180	168.1881	5334
156	131.6351	4448	181	169.7606	2063
157	133.1007	6302	182	171.3358	6106
158	134.5722	7834	183	172.9137	3271
159	136.0495	7410	184	174.4940	9299
160	137.5325	3254	185	176.0767	9872
161	139.0210	3448	186	177.6617	0611
162	140.5149	5941	187	179.2486	7085
163	142.0141	8545	188	180.8375	4811
164	143.5185	8943	189	182.4281	9261
165	145.0280	4688	190	184.0204	5860
166	146.5424	3212	191	185.6141	9995
167	148.0616	1822	192	187.2092	7016
168	149.5854	7708	193	188.8055	2242
169	151.1138	7946	194	190.4028	0960
170	152.6466	9496	195	192.0009	8433
171	154.1837	9213	196	193.5998	9903
172	155.7250	3845	197	195.1994	0591
173	157.2703	0038	198	196.7993	5707
174	158.8194	4337	199	198.3996	0447
175	160.3723	3193	200	200.0000	0000

$$e = 60^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	10.6801	5000
1	0.4122	3892	26	11.1388	9617
2	0.8246	2286	27	11.6013	0910
3	1.2372	9681	28	12.0675	2142
4	1.6504	0567	29	12.5376	6484
5	2.0640	9427	30	13.0118	7010
6	2.4785	0726	31	13.4902	6693
7	2.8937	8912	32	13.9729	8402
8	3.3100	8412	33	14.4601	4900
9	3.7275	3630	34	14.9518	8842
10	4.1462	8937	35	15.4483	2768
11	4.5664	8676	36	15.9495	9101
12	4.9882	7153	37	16.4558	0149
13	5.4117	8633	38	16.9670	8094
14	5.8371	7341	39	17.4835	4994
15	6.2645	7455	40	18.0053	2781
16	6.6941	3102	41	18.5325	3254
17	7.1259	8358	42	19.0652	8077
18	7.5602	7240	43	19.6036	8781
19	7.9971	3707	44	20.1478	6753
20	8.4367	1653	45	20.6979	3242
21	8.8791	4906	46	21.2539	9347
22	9.3245	7222	47	21.8161	6023
23	9.7731	2286	48	22.3845	4073
24	10.2249	3703	49	22.9592	4145
25	10.6801	5000	50	23.5403	6735

$$e = 60^c$$

θ	mean anomaly		θ	mean anomaly	
50	23.5403	6735	75	40.4288	2391
51	24.1280	2176	76	41.2081	6245
52	24.7223	0643	77	41.9960	8534
53	25.3233	2147	78	42.7926	4493
54	25.9311	6531	79	43.5978	9141
55	26.5459	3471	80	44.4118	7283
56	27.1677	2473	81	45.2346	3509
57	27.7966	2869	82	46.0662	2191
58	28.4327	3814	83	46.9066	7486
59	29.0761	4286	84	47.7560	3329
60	29.7269	3085	85	48.6143	3438
61	30.3851	8827	86	49.4816	1309
62	31.0509	9944	87	50.3579	0217
63	31.7244	4681	88	51.2432	3213
64	32.4056	1095	89	52.1376	3128
65	33.0945	7053	90	53.0411	2567
66	33.7914	0231	91	53.9537	3910
67	34.4961	8107	92	54.8754	9315
68	35.2089	7966	93	55.8064	0711
69	35.9298	6895	94	56.7464	9803
70	36.6589	1779	95	57.6957	8070
71	37.3961	9305	96	58.6542	6762
72	38.1417	5955	97	59.6219	6905
73	38.8956	8006	98	60.5988	9295
74	39.6580	1530	99	61.5850	4501
75	40.4288	2391	100	62.5804	2865

$$e = 60^c$$

θ	mean anomaly		θ	mean anomaly	
100	62.5804	2865	125	90.4288	2391
101	63.5850	4501	126	91.6580	1530
102	64.5988	9295	127	92.8956	8006
103	65.6219	6905	128	94.1417	5955
104	66.6542	6762	129	95.3961	9305
105	67.6957	8070	130	96.6589	1779
106	68.7464	9803	131	97.9298	6895
107	69.8064	0711	132	99.2089	7966
108	70.8754	9315	133	100.4961	8107
109	71.9537	3910	134	101.7914	0231
110	73.0411	2567	135	103.0945	7053
111	74.1376	3128	136	104.4056	1095
112	75.2432	3213	137	105.7244	4681
113	76.3579	0217	138	107.0509	9944
114	77.4816	1309	139	108.3851	8827
115	78.6143	3438	140	109.7269	3085
116	79.7560	3329	141	111.0761	4286
117	80.9066	7486	142	112.4327	3814
118	82.0662	2191	143	113.7966	2869
119	83.2346	3509	144	115.1677	2473
120	84.4118	7283	145	116.5459	3471
121	85.5978	9141	146	117.9311	6531
122	86.7926	4493	147	119.3233	2147
123	87.9960	8534	148	120.7223	0643
124	89.2081	6245	149	122.1280	2176
125	90.4288	2391	150	123.5403	6735

$$e = 60^c$$

θ	mean anomaly		θ	mean anomaly	
150	123.5403	6735	175	160.6801	5000
151	124.9592	4145	176	162.2249	3703
152	126.3845	4073	177	163.7731	2286
153	127.8161	6023	178	165.3245	7222
154	129.2539	9347	179	166.8791	4906
155	130.6979	3242	180	168.4367	1653
156	132.1478	6753	181	169.9971	3707
157	133.6036	8781	182	171.5602	7240
158	135.0652	8077	183	173.1259	8358
159	136.5325	3254	184	174.6941	3102
160	138.0053	2781	185	176.2645	7455
161	139.4835	4994	186	177.8371	7341
162	140.9670	8094	187	179.4117	8633
163	142.4558	0149	188	180.9882	7153
164	143.9495	9101	189	182.5664	8676
165	145.4483	2768	190	184.1462	8937
166	146.9518	8842	191	185.7275	3630
167	148.4601	4900	192	187.3100	8412
168	149.9729	8402	193	188.8937	8912
169	151.4902	6693	194	190.4785	0726
170	153.0118	7010	195	192.0640	9427
171	154.5376	6484	196	193.6504	0567
172	156.0675	2142	197	195.2372	9681
173	157.6013	0910	198	196.8246	2286
174	159.1388	9617	199	198.4122	3892
175	160.6801	5000	200	200.0000	0000

$$e = 61^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	10.9915	0127
1	0.4250	1839	26	11.4620	1573
2	0.8501	7866	27	11.9361	1721
3	1.2756	2262	28	12.4139	3549
4	1.7014	9205	29	12.8955	9939
5	2.1279	2860	30	13.3812	3681
6	2.5550	7379	31	13.8709	7466
7	2.9830	6896	32	14.3649	3885
8	3.4120	5525	33	14.8632	5422
9	3.8421	7355	34	15.3660	4456
10	4.2735	6447	35	15.8734	3255
11	4.7063	6830	36	16.3855	3974
12	5.1407	2498	37	16.9024	8650
13	5.5767	7409	38	17.4243	9202
14	6.0146	5477	39	17.9513	7427
15	6.4545	0572	40	18.4835	4994
16	6.8964	6514	41	19.0210	3448
17	7.3406	7071	42	19.5639	4200
18	7.7872	5959	43	20.1123	8529
19	8.2363	6830	44	20.6664	7575
20	8.6881	3278	45	21.2263	2340
21	9.1426	8830	46	21.7920	3686
22	9.6001	6942	47	22.3637	2327
23	10.0607	1003	48	22.9414	8831
24	10.5244	4320	49	23.5254	3616
25	10.9915	0127	50	24.1156	6949

$$e = 61^c$$

θ	mean anomaly		θ	mean anomaly	
50	24.1156	6949	75	41.1804	9238
51	24.7122	8938	76	41.9646	2867
52	25.3153	9537	77	42.7571	6269
53	25.9250	8539	78	43.5581	4561
54	26.5414	5574	79	44.3676	2654
55	27.1646	0107	80	45.1856	5249
56	27.7946	1437	81	46.0122	6836
57	28.4315	8693	82	46.8475	1693
58	29.0756	0832	83	47.6914	3885
59	29.7267	6637	84	48.5440	7263
60	30.3851	4715	85	49.4054	5463
61	31.0508	3495	86	50.2756	1905
62	31.7239	1226	87	51.1545	9793
63	32.4044	5975	88	52.0424	2112
64	33.0925	5622	89	52.9391	1631
65	33.7882	7864	90	53.8447	0898
66	34.4917	0209	91	54.7592	2243
67	35.2028	9974	92	55.6826	7775
68	35.9219	4285	93	56.6150	9382
69	36.6489	0074	94	57.5564	8733
70	37.3838	4078	95	58.5068	7273
71	38.1268	2837	96	59.4662	6226
72	38.8779	2692	97	60.4346	6594
73	39.6371	9784	98	61.4120	9157
74	40.4047	0054	99	62.3985	4472
75	41.1804	9238	100	63.3940	2873

$$e = 61^c$$

θ	mean anomaly		θ	mean anomaly	
100	63.3940	2873	125	91.1804	9238
101	64.3985	4472	126	92.4047	0054
102	65.4120	9157	127	93.6371	9784
103	66.4346	6594	128	94.8779	2692
104	67.4662	6226	129	96.1268	2837
105	68.5068	7273	130	97.3838	4078
106	69.5564	8733	131	98.6489	0074
107	70.6150	9382	132	99.9219	4285
108	71.6826	7775	133	101.2028	9974
109	72.7592	2243	134	102.4917	0209
110	73.8447	0898	135	103.7882	7864
111	74.9391	1631	136	105.0925	5622
112	76.0424	2112	137	106.4044	5975
113	77.1545	9793	138	107.7239	1226
114	78.2756	1905	139	109.0508	3495
115	79.4054	5463	140	110.3851	4715
116	80.5440	7263	141	111.7267	6637
117	81.6914	3885	142	113.0756	0832
118	82.8475	1693	143	114.4315	8693
119	84.0122	6836	144	115.7946	1437
120	85.1856	5249	145	117.1646	0107
121	86.3676	2654	146	118.5414	5574
122	87.5581	4561	147	119.9250	8539
123	88.7571	6269	148	121.3153	9537
124	89.9646	2867	149	122.7122	8938
125	91.1804	9238	150	124.1156	6949

$$e = 61^c$$

θ	mean anomaly		θ	mean anomaly	
150	124.1156	6949	175	160.9915	0127
151	125.5254	3616	176	162.5244	4320
152	126.9414	8831	177	164.0607	1003
153	128.3637	2327	178	165.6001	6942
154	129.7920	3686	179	167.1426	8830
155	131.2263	2340	180	168.6881	3278
156	132.6664	7575	181	170.2363	6830
157	134.1123	8529	182	171.7872	5959
158	135.5639	4200	183	173.3406	7071
159	137.0210	3448	184	174.8964	6514
160	138.4835	4994	185	176.4545	0572
161	139.9513	7427	186	178.0146	5477
162	141.4243	9202	187	179.5767	7409
163	142.9024	8650	188	181.1407	2498
164	144.3855	3974	189	182.7063	6830
165	145.8734	3255	190	184.2735	6447
166	147.3660	4456	191	185.8421	7355
167	148.8632	5422	192	187.4120	5525
168	150.3649	3885	193	188.9830	6896
169	151.8709	7466	194	190.5550	7379
170	153.3812	3681	195	192.1279	2860
171	154.8955	9939	196	193.7014	9205
172	156.4139	3549	197	195.2756	2262
173	157.9361	1721	198	196.8501	7866
174	159.4620	1573	199	198.4250	1839
175	160.9915	0127	200	200.0000	0000

$$e = 62^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	11.3063	0893
1	0.4379	3974	26	11.7887	2231
2	0.8760	1815	27	12.2746	4212
3	1.3143	7390	28	12.7641	9518
4	1.7531	4554	29	13.2575	0746
5	2.1924	7156	30	13.7547	0395
6	2.6324	9030	31	14.2559	0873
7	3.0733	3992	32	14.7612	4487
8	3.5151	5839	33	15.2708	3440
9	3.9580	8342	34	15.7847	9835
10	4.4022	5247	35	16.3032	5662
11	4.8478	0269	36	16.8263	2804
12	5.2948	7086	37	17.3541	3027
13	5.7435	9342	38	17.8867	7983
14	6.1941	0640	39	18.4243	9202
15	6.6465	4536	40	18.9670	8094
16	7.1010	4541	41	19.5149	5941
17	7.5577	4115	42	20.0681	3900
18	8.0167	6662	43	20.6267	2994
19	8.4782	5530	44	21.1908	4116
20	8.9423	4007	45	21.7605	8019
21	9.4091	5315	46	22.3360	5320
22	9.8788	2610	47	22.9173	6494
23	10.3514	8976	48	23.5046	1871
24	10.8272	7426	49	24.0979	1634
25	11.3063	0893	50	24.6973	5819

$$e = 62^c$$

θ	mean anomaly		θ	mean anomaly	
50	24.6973	5819	75	41.9405	0530
51	25.3030	4309	76	42.7294	9262
52	25.9150	6833	77	43.5266	8894
53	26.5335	2964	78	44.3321	4429
54	27.1585	2115	79	45.1459	0669
55	27.7901	3540	80	45.9680	2207
56	28.4284	6327	81	46.7985	3434
57	29.0735	9401	82	47.6374	8531
58	29.7256	1517	83	48.4849	1471
59	30.3846	1261	84	49.3408	6020
60	31.0506	7047	85	50.2053	5730
61	31.7238	7114	86	51.0784	3947
62	32.4042	9526	87	51.9601	3801
63	33.0920	2168	88	52.8504	8211
64	33.7871	2744	89	53.7494	9883
65	34.4896	8778	90	54.6572	1308
66	35.1997	7608	91	55.5736	4763
67	35.9174	6387	92	56.4988	2311
68	36.6428	2082	93	57.4327	5797
69	37.3759	1468	94	58.3754	6852
70	38.1168	1131	95	59.3269	6889
71	38.8655	7464	96	60.2872	7104
72	39.6222	6666	97	61.2563	8477
73	40.3869	4740	98	62.2343	1771
74	41.1596	7492	99	63.2210	7530
75	41.9405	0530	100	64.2166	6079

$$e = 62^c$$

θ	mean anomaly		θ	mean anomaly	
100	64.2166	6079	125	91.9405	0530
101	65.2210	7530	126	93.1596	7492
102	66.2343	1771	127	94.3869	4740
103	67.2563	8477	128	95.6222	6666
104	68.2872	7104	129	96.8655	7464
105	69.3269	6889	130	98.1168	1131
106	70.3754	6852	131	99.3759	1468
107	71.4327	5797	132	100.6428	2082
108	72.4988	2311	133	101.9174	6387
109	73.5736	4763	134	103.1997	7608
110	74.6572	1308	135	104.4896	8778
111	75.7494	9883	136	105.7871	2744
112	76.8504	8211	137	107.0920	2168
113	77.9601	3801	138	108.4042	9526
114	79.0784	3947	139	109.7238	7114
115	80.2053	5730	140	111.0506	7047
116	81.3408	6020	141	112.3846	1261
117	82.4849	1471	142	113.7256	1517
118	83.6374	8531	143	115.0735	9401
119	84.7985	3434	144	116.4284	6327
120	85.9680	2207	145	117.7901	3540
121	87.1459	0669	146	119.1585	2115
122	88.3321	4429	147	120.5335	2964
123	89.5266	8894	148	121.9150	6833
124	90.7294	9262	149	123.3030	4309
125	91.9405	0530	150	124.6973	5819

$$e = 62^c$$

θ	mean anomaly		θ	mean anomaly	
150	124.6973	5819	175	161.3063	0893
151	126.0979	1634	176	162.8272	7426
152	127.5046	1871	177	164.3514	8976
153	128.9173	6494	178	165.8788	2610
154	130.3360	5320	179	167.4091	5315
155	131.7605	8019	180	168.9423	4007
156	133.1908	4116	181	170.4782	5530
157	134.6267	2994	182	172.0167	6662
158	136.0681	3900	183	173.5577	4115
159	137.5149	5941	184	175.1010	4541
160	138.9670	8094	185	176.6465	4536
161	140.4243	9202	186	178.1941	0640
162	141.8867	7983	187	179.7435	9342
163	143.3541	3027	188	181.2948	7086
164	144.8263	2804	189	182.8478	0269
165	146.3032	5662	190	184.4022	5247
166	147.7847	9835	191	185.9580	8342
167	149.2708	3440	192	187.5151	5839
168	150.7612	4487	193	189.0733	3992
169	152.2559	0873	194	190.6324	9030
170	153.7547	0395	195	192.1924	7156
171	155.2575	0746	196	193.7531	4554
172	156.7641	9518	197	195.3143	7390
173	158.2746	4212	198	196.8760	1815
174	159.7887	2231	199	198.4379	3974
175	161.3063	0893	200	200.0000	0000

$$e = 63^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	11.6244	9531
1	0.4509	9976	26	12.1189	3532
2	0.9021	3498	27	12.6168	0028
3	1.3535	4108	28	13.1182	1409
4	1.8053	5341	29	13.6232	9975
5	2.2577	0725	30	14.1321	7938
6	2.7107	3770	31	14.6449	7415
7	3.1645	7973	32	15.1618	0429
8	3.6193	6809	33	15.6827	8900
9	4.0752	3731	34	16.2080	4647
10	4.5323	2164	35	16.7376	9384
11	4.9907	5504	36	17.2718	4716
12	5.4506	7113	37	17.8106	2137
13	5.9122	0316	38	18.3541	3027
14	6.3754	8401	39	18.9024	8650
15	6.8406	4609	40	19.4558	0149
16	7.3078	2137	41	20.0141	8545
17	7.7771	4131	42	20.5777	4735
18	8.2487	3686	43	21.1465	9487
19	8.7227	3838	44	21.7208	3439
20	9.1992	7567	45	22.3005	7096
21	9.6784	7787	46	22.8859	0827
22	10.1604	7349	47	23.4769	4864
23	10.6453	9033	48	24.0737	9297
24	11.1333	5549	49	24.6765	4074
25	11.6244	9531	50	25.2852	8995

$$e = 63^c$$

θ	mean anomaly		θ	mean anomaly	
50	25.2852	8995	75	42.7086	7516
51	25.9001	3715	76	43.5025	6557
52	26.5211	7737	77	44.3044	7423
53	27.1485	0410	78	45.1144	5002
54	27.7822	0930	79	45.9325	3983
55	28.4223	8335	80	46.7587	8854
56	29.0691	1503	81	47.5932	3902
57	29.7224	9150	82	48.4359	3212
58	30.3825	9829	83	49.2869	0665
59	31.0495	1926	84	50.1461	9938
60	31.7233	3660	85	51.0138	4503
61	32.4041	3077	86	51.8898	7626
62	33.0919	8055	87	52.7743	2365
63	33.7869	6296	88	53.6672	1571
64	34.4891	5324	89	54.5685	7888
65	35.1986	2488	90	55.4784	3748
66	35.9154	4956	91	56.3968	1376
67	36.6396	9716	92	57.3237	2786
68	37.3714	3570	93	58.2591	9781
69	38.1107	3139	94	59.2032	3953
70	38.8576	4854	95	60.1558	6683
71	39.6122	4960	96	61.1170	9141
72	40.3745	9512	97	62.0869	2281
73	41.1447	4374	98	63.0653	6850
74	41.9227	5216	99	64.0524	3378
75	42.7086	7516	100	65.0481	2186

$$e = 63^c$$

θ	mean anomaly		θ	mean anomaly	
100	65.0481	2186	125	92.7086	7516
101	66.0524	3378	126	93.9227	5216
102	67.0653	6850	127	95.1447	4374
103	68.0869	2281	128	96.3745	9512
104	69.1170	9141	129	97.6122	4960
105	70.1558	6683	130	98.8576	4854
106	71.2032	3953	131	100.1107	3139
107	72.2591	9781	132	101.3714	3570
108	73.3237	2786	133	102.6396	9716
109	74.3968	1376	134	103.9154	4956
110	75.4784	3748	135	105.1986	2488
111	76.5685	7888	136	106.4891	5324
112	77.6672	1571	137	107.7869	6296
113	78.7743	2365	138	109.0919	8055
114	79.8898	7626	139	110.4041	3077
115	81.0138	4503	140	111.7233	3660
116	82.1461	9938	141	113.0495	1926
117	83.2869	0665	142	114.3825	9829
118	84.4359	3212	143	115.7224	9150
119	85.5932	3902	144	117.0691	1503
120	86.7587	8854	145	118.4223	8335
121	87.9325	3983	146	119.7822	0930
122	89.1144	5002	147	121.1485	0410
123	90.3044	7423	148	122.5211	7737
124	91.5025	6557	149	123.9001	3715
125	92.7086	7516	150	125.2852	8995

$$e = 63^c$$

θ	mean anomaly		θ	mean anomaly	
150	125.2852	8995	175	161.6244	9531
151	126.6765	4074	176	163.1333	5549
152	128.0737	9297	177	164.6453	9033
153	129.4769	4864	178	166.1604	7349
154	130.8859	0827	179	167.6784	7787
155	132.3005	7096	180	169.1992	7567
156	133.7208	3439	181	170.7227	3838
157	135.1465	9487	182	172.2487	3686
158	136.5777	4735	183	173.7771	4131
159	138.0141	8545	184	175.3078	2137
160	139.4558	0149	185	176.8406	4609
161	140.9024	8650	186	178.3754	8401
162	142.3541	3027	187	179.9122	0316
163	143.8106	2137	188	181.4506	7113
164	145.2718	4716	189	182.9907	5504
165	146.7376	9384	190	184.5323	2164
166	148.2080	4647	191	186.0752	3731
167	149.6827	8900	192	187.6193	6809
168	151.1618	0429	193	189.1645	7973
169	152.6449	7415	194	190.7107	3770
170	154.1321	7938	195	192.2577	0725
171	155.6232	9975	196	193.8053	5341
172	157.1182	1409	197	195.3535	4108
173	158.6168	0028	198	196.9021	3498
174	160.1189	3532	199	198.4509	9976
175	161.6244	9531	200	200.0000	0000

$$e = 64^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	11.9459	8188
1	0.4641	9524	26	12.4525	7328
2	0.9285	2268	27	12.9625	0729
3	1.3931	1449	28	13.4759	0485
4	1.8581	0278	29	13.9928	8601
5	2.3236	1955	30	14.5135	6995
6	2.7897	9668	31	15.0380	7493
7	3.2567	6587	32	15.5665	1828
8	3.7246	5865	33	16.0990	1635
9	4.1936	0631	34	16.6356	8448
10	4.6637	3988	35	17.1766	3700
11	5.1351	9008	36	17.7219	8717
12	5.6080	8734	37	18.2718	4716
13	6.0825	6171	38	18.8263	2804
14	6.5587	4286	39	19.3855	3974
15	7.0367	6002	40	19.9495	9101
16	7.5167	4199	41	20.5185	8943
17	7.9988	1708	42	21.0926	4132
18	8.4831	1308	43	21.6718	5179
19	8.9697	5723	44	22.2563	2467
20	9.4588	7618	45	22.8461	6247
21	9.9505	9601	46	23.4414	6639
22	10.4450	4211	47	24.0423	3630
23	10.9423	3922	48	24.6488	7067
24	11.4426	1138	49	25.2611	6658
25	11.9459	8188	50	25.8793	1969

$$e = 64^c$$

θ	mean anomaly		θ	mean anomaly	
50	25.8793	1969	75	43.4848	1242
51	26.5034	2422	76	44.2836	5677
52	27.1335	7291	77	45.0903	2665
53	27.7698	5703	78	45.9048	6976
54	28.4123	6630	79	46.7273	3187
55	29.0611	8893	80	47.5577	5677
56	29.7164	1159	81	48.3961	8631
57	30.3781	1932	82	49.2426	6036
58	31.0463	9560	83	50.0972	1679
59	31.7213	2228	84	50.9598	9149
60	32.4029	7957	85	51.8307	1834
61	33.0914	4601	86	52.7097	2921
62	33.7867	9847	87	53.5969	5396
63	34.4891	1211	88	54.4924	2042
64	35.1984	6039	89	55.3961	5436
65	35.9149	1502	90	56.3081	7956
66	36.6385	4595	91	57.2285	1770
67	37.3694	2139	92	58.1571	8845
68	38.1076	0773	93	59.0942	0941
69	38.8531	6957	94	60.0395	9612
70	39.6061	6968	95	60.9933	6205
71	40.3666	6903	96	61.9555	1861
72	41.1347	2668	97	62.9260	7513
73	41.9103	9988	98	63.9050	3889
74	42.6937	4398	99	64.8924	1506
75	43.4848	1242	100	65.8882	0678

$$e = 64^c$$

θ	mean anomaly		θ	mean anomaly	
100	65.8882	0678	125	93.4848	1242
101	66.8924	1506	126	94.6937	4398
102	67.9050	3889	127	95.9103	9988
103	68.9260	7513	128	97.1347	2668
104	69.9555	1861	129	98.3666	6903
105	70.9933	6205	130	99.6061	6968
106	72.0395	9612	131	100.8531	6957
107	73.0942	0941	132	102.1076	0773
108	74.1571	8845	133	103.3694	2139
109	75.2285	1770	134	104.6385	4595
110	76.3081	7956	135	105.9149	1502
111	77.3961	5436	136	107.1984	6039
112	78.4924	2042	137	108.4891	1211
113	79.5969	5396	138	109.7867	9847
114	80.7097	2921	139	111.0914	4601
115	81.8307	1834	140	112.4029	7957
116	82.9598	9149	141	113.7213	2228
117	84.0972	1679	142	115.0463	9560
118	85.2426	6036	143	116.3781	1932
119	86.3961	8631	144	117.7164	1159
120	87.5577	5677	145	119.0611	8893
121	88.7273	3187	146	120.4123	6630
122	89.9048	6976	147	121.7698	5703
123	91.0903	2665	148	123.1335	7291
124	92.2836	5677	149	124.5034	2422
125	93.4848	1242	150	125.8793	1969

$$e = 64^c$$

θ	mean anomaly		θ	mean anomaly	
150	125.8793	1969	175	161.9459	8188
151	127.2611	6658	176	163.4426	1138
152	128.6488	7067	177	164.9423	3922
153	130.0423	3630	178	166.4450	4211
154	131.4414	6639	179	167.9505	9601
155	132.8461	6247	180	169.4588	7618
156	134.2563	2467	181	170.9697	5723
157	135.6718	5179	182	172.4831	1308
158	137.0926	4132	183	173.9988	1708
159	138.5185	8943	184	175.5167	4199
160	139.9495	9101	185	177.0367	6002
161	141.3855	3974	186	178.5587	4286
162	142.8263	2804	187	180.0825	6171
163	144.2718	4716	188	181.6080	8734
164	145.7219	8717	189	183.1351	9008
165	147.1766	3700	190	184.6637	3988
166	148.6356	8448	191	186.1936	0631
167	150.0990	1635	192	187.7246	5865
168	151.5665	1828	193	189.2567	6587
169	153.0380	7493	194	190.7897	9668
170	154.5135	6995	195	192.3236	1955
171	155.9928	8601	196	193.8581	0278
172	157.4759	0485	197	195.3931	1449
173	158.9625	0729	198	196.9285	2268
174	160.4525	7328	199	198.4641	9524
175	161.9459	8188	200	200.0000	0000

$$e = 65^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	12.2706	8935
1	0.4775	2292	26	12.7895	5385
2	0.9551	7476	27	13.3116	7784
3	1.4330	8439	28	13.8371	7921
4	1.9113	8063	29	14.3661	7505
5	2.3901	9221	30	14.8987	8156
6	2.8696	4772	31	15.4351	1408
7	3.3498	7560	32	15.9752	8699
8	3.8310	0409	33	16.5194	1377
9	4.3131	6122	34	17.0676	0688
10	4.7964	7475	35	17.6199	7781
11	5.2810	7218	36	18.1766	3700
12	5.7670	8067	37	18.7376	9384
13	6.2546	2703	38	19.3032	5662
14	6.7438	3772	39	19.8734	3255
15	7.2348	3876	40	20.4483	2768
16	7.7277	5573	41	21.0280	4688
17	8.2227	1376	42	21.6126	9387
18	8.7198	3745	43	22.2023	7112
19	9.2192	5088	44	22.7971	7987
20	9.7210	7757	45	23.3972	2010
21	10.2254	4042	46	24.0025	9050
22	10.7324	6174	47	24.6133	8842
23	11.2422	6315	48	25.2297	0991
24	11.7549	6561	49	25.8516	4963
25	12.2706	8935	50	26.4793	0085

$$e = 65^c$$

θ	mean anomaly		θ	mean anomaly	
50	26.4793	0085	75	44.2687	2558
51	27.1127	5546	76	45.0725	7350
52	27.7521	0388	77	45.8840	5230
53	28.3974	3511	78	46.7032	0850
54	29.0488	3666	79	47.5300	8670
55	29.7063	9453	80	48.3647	2964
56	30.3701	9322	81	49.2071	7811
57	31.0403	1568	82	50.0574	7098
58	31.7168	4331	83	50.9156	4520
59	32.3998	5591	84	51.7817	3574
60	33.0894	3170	85	52.6557	7567
61	33.7856	4727	86	53.5377	9604
62	34.4885	7757	87	54.4278	2598
63	35.1982	9591	88	55.3258	9261
64	35.9148	7390	89	56.2320	2110
65	36.6383	8147	90	57.1462	3459
66	37.3688	8685	91	58.0685	5425
67	38.1064	5653	92	58.9989	9926
68	38.8511	5525	93	59.9375	8677
69	39.6030	4602	94	60.8843	3193
70	40.3621	9005	95	61.8392	4789
71	41.1286	4676	96	62.8023	4577
72	41.9024	7379	97	63.7736	3468
73	42.6837	2692	98	64.7531	2169
74	43.4724	6015	99	65.7408	1188
75	44.2687	2558	100	66.7367	0827

$$e = 65^c$$

θ	mean anomaly		θ	mean anomaly	
100	66.7367	0827	125	94.2687	2558
101	67.7408	1188	126	95.4724	6015
102	68.7531	2169	127	96.6837	2692
103	69.7736	3468	128	97.9024	7379
104	70.8023	4577	129	99.1286	4676
105	71.8392	4789	130	100.3621	9005
106	72.8843	3193	131	101.6030	4602
107	73.9375	8677	132	102.8511	5525
108	74.9989	9926	133	104.1064	5653
109	76.0685	5425	134	105.3688	8685
110	77.1462	3459	135	106.6383	8147
111	78.2320	2110	136	107.9148	7390
112	79.3258	9261	137	109.1982	9591
113	80.4278	2598	138	110.4885	7757
114	81.5377	9604	139	111.7856	4727
115	82.6557	7567	140	113.0894	3170
116	83.7817	3574	141	114.3998	5591
117	84.9156	4520	142	115.7168	4331
118	86.0574	7098	143	117.0403	1568
119	87.2071	7811	144	118.3701	9322
120	88.3647	2964	145	119.7063	9453
121	89.5300	8670	146	121.0488	3666
122	90.7032	0850	147	122.3974	3511
123	91.8840	5230	148	123.7521	0388
124	93.0725	7350	149	125.1127	5546
125	94.2687	2558	150	126.4793	0085

$$e = 65^c$$

θ	mean anomaly		θ	mean anomaly	
150	126.4793	0085	175	162.2706	8935
151	127.8516	4963	176	163.7549	6561
152	129.2297	0991	177	165.2422	6315
153	130.6133	8842	178	166.7324	6174
154	132.0025	9050	179	168.2254	4042
155	133.3972	2010	180	169.7210	7757
156	134.7971	7987	181	171.2192	5088
157	136.2023	7112	182	172.7198	3745
158	137.6126	9387	183	174.2227	1376
159	139.0280	4688	184	175.7277	5573
160	140.4483	2768	185	177.2348	3876
161	141.8734	3255	186	178.7438	3772
162	143.3032	5662	187	180.2546	2703
163	144.7376	9384	188	181.7670	8067
164	146.1766	3700	189	183.2810	7218
165	147.6199	7781	190	184.7964	7475
166	149.0676	0688	191	186.3131	6122
167	150.5194	1377	192	187.8310	0409
168	151.9752	8699	193	189.3498	7560
169	153.4351	1408	194	190.8696	4772
170	154.8987	8156	195	192.3901	9221
171	156.3661	7505	196	193.9113	8063
172	157.8371	7921	197	195.4330	8439
173	159.3116	7784	198	196.9551	7476
174	160.7895	5385	199	198.4775	2292
175	162.2706	8935	200	200.0000	0000

$$e = 66^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	12.5985	3758
1	0.4909	7952	26	13.1297	9391
2	0.9820	8463	27	13.6642	2577
3	1.4734	4089	28	14.2019	4804
4	1.9651	7382	29	14.7430	7477
5	2.4574	0880	30	15.2877	1918
6	2.9502	7113	31	15.8359	9363
7	3.4438	8594	32	16.3880	0956
8	3.9383	7816	33	16.9438	7753
9	4.4338	7253	34	17.5037	0710
10	4.9304	9352	35	18.0676	0688
11	5.4283	6534	36	18.6356	8448
12	5.9276	1187	37	19.2080	4647
13	6.4283	5668	38	19.7847	9835
14	6.9307	2294	39	20.3660	4456
15	7.4348	3344	40	20.9518	8842
16	7.9408	1052	41	21.5424	3212
17	8.4487	7610	42	22.1377	7668
18	8.9588	5156	43	22.7380	2195
19	9.4711	5779	44	23.3432	6656
20	9.9858	1512	45	23.9536	0790
21	10.5029	4329	46	24.5691	4213
22	11.0226	6146	47	25.1899	6411
23	11.5450	8813	48	25.8161	6738
24	12.0703	4112	49	26.4478	4418
25	12.5985	3758	50	27.0850	8539

$$e = 66^c$$

θ	mean anomaly		θ	mean anomaly	
50	27.0850	8539	75	45.0602	2123
51	27.7279	8051	76	45.8691	2112
52	28.3766	1765	77	46.6854	5535
53	29.0310	8351	78	47.5092	6925
54	29.6914	6335	79	48.3406	0627
55	30.3578	4095	80	49.1795	0805
56	31.0302	9863	81	50.0260	1431
57	31.7089	1721	82	50.8801	6295
58	32.3937	7599	83	51.7419	8994
59	33.0849	5272	84	52.6115	2938
60	33.7825	2361	85	53.4888	1345
61	34.4865	6326	86	54.3738	7243
62	35.1971	4470	87	55.2667	3469
63	35.9143	3935	88	56.1674	2666
64	36.6382	1698	89	57.0759	7284
65	37.3688	4573	90	57.9923	9579
66	38.1062	9204	91	58.9167	1614
67	38.8506	2071	92	59.8489	5256
68	39.6018	9482	93	60.7891	2178
69	40.3601	7574	94	61.7372	3854
70	41.1255	2310	95	62.6933	1566
71	41.8979	9481	96	63.6573	6397
72	42.6776	4700	97	64.6293	9234
73	43.4645	3405	98	65.6094	0767
74	44.2587	0853	99	66.5974	1490
75	45.0602	2123	100	67.5934	1698

$$e = 66^c$$

θ	mean anomaly		θ	mean anomaly	
100	67.5934	1698	125	95.0602	2123
101	68.5974	1490	126	96.2587	0853
102	69.6094	0767	127	97.4645	3405
103	70.6293	9234	128	98.6776	4700
104	71.6573	6397	129	99.8979	9481
105	72.6933	1566	130	101.1255	2310
106	73.7372	3854	131	102.3601	7574
107	74.7891	2178	132	103.6018	9482
108	75.8489	5256	133	104.8506	2071
109	76.9167	1614	134	106.1062	9204
110	77.9923	9579	135	107.3688	4573
111	79.0759	7284	136	108.6382	1698
112	80.1674	2666	137	109.9143	3935
113	81.2667	3469	138	111.1971	4470
114	82.3738	7243	139	112.4865	6326
115	83.4888	1345	140	113.7825	2361
116	84.6115	2938	141	115.0849	5272
117	85.7419	8994	142	116.3937	7599
118	86.8801	6295	143	117.7089	1721
119	88.0260	1431	144	119.0302	9863
120	89.1795	0805	145	120.3578	4095
121	90.3406	0627	146	121.6914	6335
122	91.5092	6925	147	123.0310	8351
123	92.6854	5535	148	124.3766	1765
124	93.8691	2112	149	125.7279	8051
125	95.0602	2123	150	127.0850	8539

$$e = 66^c$$

θ	mean anomaly		θ	mean anomaly	
150	127.0850	8539	175	162.5985	3758
151	128.4478	4418	176	164.0703	4112
152	129.8161	6738	177	165.5450	8813
153	131.1899	6411	178	167.0226	6146
154	132.5691	4213	179	168.5029	4329
155	133.9536	0790	180	169.9858	1512
156	135.3432	6656	181	171.4711	5779
157	136.7380	2195	182	172.9588	5156
158	138.1377	7668	183	174.4487	7610
159	139.5424	3212	184	175.9408	1052
160	140.9518	8842	185	177.4348	3344
161	142.3660	4456	186	178.9307	2294
162	143.7847	9835	187	180.4283	5668
163	145.2080	4647	188	181.9276	1187
164	146.6356	8448	189	183.4283	6534
165	148.0676	0688	190	184.9304	9352
166	149.5037	0710	191	186.4338	7253
167	150.9438	7753	192	187.9383	7816
168	152.3880	0956	193	189.4438	8594
169	153.8359	9363	194	190.9502	7113
170	155.2877	1918	195	192.4574	0880
171	156.7430	7477	196	193.9651	7382
172	158.2019	4804	197	195.4734	4089
173	159.6642	2577	198	196.9820	8463
174	161.1297	9391	199	198.4909	7952
175	162.5985	3758	200	200.0000	0000

$$e = 67^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	12.9294	4568
1	0.5045	6171	26	13.4732	0950
2	1.0092	4565	27	14.0200	6411
3	1.5141	7406	28	14.5701	2133
4	2.0194	6906	29	15.1234	9217
5	2.5252	5274	30	15.6802	8683
6	3.0316	4702	31	16.2406	1467
7	3.5387	7370	32	16.8045	8416
8	4.0467	5438	33	17.3723	0289
9	4.5557	1047	34	17.9438	7753
10	5.0657	6311	35	18.5194	1377
11	5.5770	3321	36	19.0990	1635
12	6.0896	4135	37	19.6827	8900
13	6.6037	0777	38	20.2708	3440
14	7.1193	5239	39	20.8632	5422
15	7.6366	9470	40	21.4601	4900
16	8.1558	5380	41	22.0616	1822
17	8.6769	4833	42	22.6677	6020
18	9.2000	9644	43	23.2786	7212
19	9.7254	1580	44	23.8944	4998
20	10.2530	2352	45	24.5151	8859
21	10.7830	3616	46	25.1409	8151
22	11.3155	6969	47	25.7719	2109
23	11.8507	3943	48	26.4080	9838
24	12.3886	6010	49	27.0496	0314
25	12.9294	4568	50	27.6965	2384

$$e = 67^c$$

θ	mean anomaly		θ	mean anomaly	
50	27.6965	2384	75	45.8591	0406
51	28.3489	4759	76	46.6731	0308
52	29.0069	6014	77	47.4943	3806
53	29.6706	4589	78	48.3228	5313
54	30.3400	8780	79	49.1586	9059
55	31.0153	6744	80	50.0018	9094
56	31.6965	6494	81	50.8524	9288
57	32.3837	5894	82	51.7105	3327
58	33.0770	2663	83	52.5760	4713
59	33.7764	4369	84	53.4490	6764
60	34.4820	8428	85	54.3296	2614
61	35.1940	2104	86	55.2177	5210
62	35.9123	2504	87	56.1134	7311
63	36.6370	6578	88	57.0168	1491
64	37.3683	1118	89	57.9278	0135
65	38.1061	2756	90	58.8464	5439
66	38.8505	7959	91	59.7727	9410
67	39.6017	3034	92	60.7068	3866
68	40.3596	4119	93	61.6486	0434
69	41.1243	7190	94	62.5981	0550
70	41.8959	8050	95	63.5553	5461
71	42.6745	2334	96	64.5203	6222
72	43.4600	5507	97	65.4931	3696
73	44.2526	2861	98	66.4736	8554
74	45.0522	9513	99	67.4620	1277
75	45.8591	0406	100	68.4581	2153

$$e = 67^c$$

θ	mean anomaly		θ	mean anomaly	
100	68.4581	2153	125	95.8591	0406
101	69.4620	1277	126	97.0522	9513
102	70.4736	8554	127	98.2526	2861
103	71.4931	3696	128	99.4600	5507
104	72.5203	6222	129	100.6745	2334
105	73.5553	5461	130	101.8959	8050
106	74.5981	0550	131	103.1243	7190
107	75.6486	0434	132	104.3596	4119
108	76.7068	3866	133	105.6017	3034
109	77.7727	9410	134	106.8505	7959
110	78.8464	5439	135	108.1061	2756
111	79.9278	0135	136	109.3683	1118
112	81.0168	1491	137	110.6370	6578
113	82.1134	7311	138	111.9123	2504
114	83.2177	5210	139	113.1940	2104
115	84.3296	2614	140	114.4820	8428
116	85.4490	6764	141	115.7764	4369
117	86.5760	4713	142	117.0770	2663
118	87.7105	3327	143	118.3837	5894
119	88.8524	9288	144	119.6965	6494
120	90.0018	9094	145	121.0153	6744
121	91.1586	9059	146	122.3400	8780
122	92.3228	5313	147	123.6706	4589
123	93.4943	3806	148	125.0069	6014
124	94.6731	0308	149	126.3489	4759
125	95.8591	0406	150	127.6965	2384

$$e = 67^c$$

θ	mean anomaly		θ	mean anomaly	
150	127.6965	2384	175	162.9294	4568
151	129.0496	0314	176	164.3886	6010
152	130.4080	9838	177	165.8507	3943
153	131.7719	2109	178	167.3155	6969
154	133.1409	8151	179	168.7830	3616
155	134.5151	8859	180	170.2530	2352
156	135.8944	4998	181	171.7254	1580
157	137.2786	7212	182	173.2000	9644
158	138.6677	6020	183	174.6769	4833
159	140.0616	1822	184	176.1558	5380
160	141.4601	4900	185	177.6366	9470
161	142.8632	5422	186	179.1193	5239
162	144.2708	3440	187	180.6037	0777
163	145.6827	8900	188	182.0896	4135
164	147.0990	1635	189	183.5770	3321
165	148.5194	1377	190	185.0657	6311
166	149.9438	7753	191	186.5557	1047
167	151.3723	0289	192	188.0467	5438
168	152.8045	8416	193	189.5387	7370
169	154.2406	1467	194	191.0316	4702
170	155.6802	8683	195	192.5252	5274
171	157.1234	9217	196	194.0194	6906
172	158.5701	2133	197	195.5141	7406
173	160.0200	6411	198	197.0092	4565
174	161.4732	0950	199	198.5045	6171
175	162.9294	4568	200	200.0000	0000

$$e = 68^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	13.2633	3202
1	0.5182	6614	26	13.8197	1588
2	1.0366	5113	27	14.3791	0506
3	1.5552	7382	28	14.9416	0824
4	2.0742	5298	29	15.5073	3339
5	2.5937	0728	30	16.0763	8766
6	3.1137	5530	31	16.6488	7736
7	3.6345	1546	32	17.2249	0799
8	4.1561	0600	33	17.8045	8416
9	4.6786	4496	34	18.3880	0956
10	5.2022	5016	35	18.9752	8699
11	5.7270	3912	36	19.5665	1828
12	6.2531	2912	37	20.1618	0429
13	6.7806	3706	38	20.7612	4487
14	7.3096	7954	39	21.3649	3885
15	7.8403	7276	40	21.9729	8402
16	8.3728	3250	41	22.5854	7708
17	8.9071	7414	42	23.2025	1366
18	9.4435	1256	43	23.8241	8823
19	9.9819	6217	44	24.4505	9415
20	10.5226	3684	45	25.0818	2359
21	11.0656	4991	46	25.7179	6754
22	11.6111	1413	47	26.3591	1578
23	12.1591	4165	48	27.0053	5685
24	12.7098	4400	49	27.6567	7804
25	13.2633	3202	50	28.3134	6534

$$e = 68^c$$

θ	mean anomaly		θ	mean anomaly	
50	28.3134	6534	75	46.6651	7698
51	28.9755	0347	76	47.4843	2101
52	29.6429	7582	77	48.3105	0085
53	30.3159	6443	78	49.1437	5940
54	30.9945	4999	79	49.9841	3780
55	31.6788	1179	80	50.8316	7543
56	32.3688	2775	81	51.6864	0990
57	33.0646	7435	82	52.5483	7706
58	33.7664	2663	83	53.4176	1097
59	34.4741	5818	84	54.2941	4389
60	35.1879	4112	85	55.1780	0629
61	35.9078	4606	86	56.0692	2682
62	36.6339	4212	87	56.9678	3232
63	37.3662	9687	88	57.8738	4781
64	38.1049	7635	89	58.7872	9647
65	38.8500	4505	90	59.7081	9967
66	39.6015	6585	91	60.6365	7691
67	40.3596	0007	92	61.5724	4588
68	41.1242	0741	93	62.5158	2239
69	41.8954	4595	94	63.4667	2041
70	42.6733	7214	95	64.4251	5206
71	43.4580	4076	96	65.3911	2760
72	44.2495	0495	97	66.3646	5542
73	45.0478	1615	98	67.3457	4206
74	45.8530	2414	99	68.3343	9217
75	46.6651	7698	100	69.3306	0857

$$e = 68^c$$

θ	mean anomaly		θ	mean anomaly	
100	69.3306	0857	125	96.6651	7698
101	70.3343	9217	126	97.8530	2414
102	71.3457	4206	127	99.0478	1615
103	72.3646	5542	128	100.2495	0495
104	73.3911	2760	129	101.4580	4076
105	74.4251	5206	130	102.6733	7214
106	75.4667	2041	131	103.8954	4595
107	76.5158	2239	132	105.1242	0741
108	77.5724	4588	133	106.3596	0007
109	78.6365	7691	134	107.6015	6585
110	79.7081	9967	135	108.8500	4505
111	80.7872	9647	136	110.1049	7635
112	81.8738	4781	137	111.3662	9687
113	82.9678	3232	138	112.6339	4212
114	84.0692	2682	139	113.9078	4606
115	85.1780	0629	140	115.1879	4112
116	86.2941	4389	141	116.4741	5818
117	87.4176	1097	142	117.7664	2663
118	88.5483	7706	143	119.0646	7435
119	89.6864	0990	144	120.3688	2775
120	90.8316	7543	145	121.6788	1179
121	91.9841	3780	146	122.9945	4999
122	93.1437	5940	147	124.3159	6443
123	94.3105	0085	148	125.6429	7582
124	95.4843	2101	149	126.9755	0347
125	96.6651	7698	150	128.3134	6534

$$e = 68^c$$

θ	mean anomaly		θ	mean anomaly	
150	128.3134	6534	175	163.2633	3202
151	129.6567	7804	176	164.7098	4400
152	131.0053	5685	177	166.1591	4165
153	132.3591	1578	178	167.6111	1413
154	133.7179	6754	179	169.0656	4991
155	135.0818	2359	180	170.5226	3684
156	136.4505	9415	181	171.9819	6217
157	137.8241	8823	182	173.4435	1256
158	139.2025	1366	183	174.9071	7414
159	140.5854	7708	184	176.3728	3250
160	141.9729	8402	185	177.8403	7276
161	143.3649	3885	186	179.3096	7954
162	144.7612	4487	187	180.7806	3706
163	146.1618	0429	188	182.2531	2912
164	147.5665	1828	189	183.7270	3912
165	148.9752	8699	190	185.2022	5016
166	150.3880	0956	191	186.6786	4496
167	151.8045	8416	192	188.1561	0600
168	153.2249	0799	193	189.6345	1546
169	154.6488	7736	194	191.1137	5530
170	156.0763	8766	195	192.5937	0728
171	157.5073	3339	196	194.0742	5298
172	158.9416	0824	197	195.5552	7382
173	160.3791	0506	198	197.0366	5113
174	161.8197	1588	199	198.5182	6614
175	163.2633	3202	200	200.0000	0000

$$e = 69^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	13.6001	1420
1	0.5320	8943	26	14.1692	2757
2	1.0642	9431	27	14.7412	6002
3	1.5967	3006	28	15.3163	1712
4	2.1295	1204	29	15.8945	0373
5	2.6627	5554	30	16.4759	2392
6	3.1965	7572	31	17.0606	8098
7	3.7310	8761	32	17.6488	7736
8	4.2664	0605	33	18.2406	1467
9	4.8026	4569	34	18.8359	9363
10	5.3399	2097	35	19.4351	1408
11	5.8783	4606	36	20.0380	7493
12	6.4180	3484	37	20.6449	7415
13	6.9591	0088	38	21.2559	0873
14	7.5016	5743	39	21.8709	7466
15	8.0458	1734	40	22.4902	6693
16	8.5916	9310	41	23.1138	7946
17	9.1393	9674	42	23.7419	0512
18	9.6890	3987	43	24.3744	3569
19	10.2407	3361	44	25.0115	6184
20	10.7945	8856	45	25.6533	7310
21	11.3507	1481	46	26.2999	5786
22	11.9092	2188	47	26.9514	0331
23	12.4702	1869	48	27.6077	9544
24	13.0338	1357	49	28.2692	1905
25	13.6001	1420	50	28.9357	5767

$$e = 69^c$$

θ	mean anomaly		θ	mean anomaly	
50	28.9357	5767	75	47.4782	4109
51	29.6074	9358	76	48.3025	7476
52	30.2845	0776	77	49.1337	4235
53	30.9668	7992	78	49.9717	8552
54	31.6546	8842	79	50.8167	4424
55	32.3480	1029	80	51.6686	5676
56	33.0469	2121	81	52.5275	5960
57	33.7514	9545	82	53.3934	8760
58	34.4618	0591	83	54.2664	7383
59	35.1779	2407	84	55.1465	4962
60	35.8999	1997	85	56.0337	4457
61	36.6278	6220	86	56.9280	8652
62	37.3618	1789	87	57.8296	0152
63	38.1018	5269	88	58.7383	1388
64	38.8480	3073	89	59.6542	4612
65	39.6004	1465	90	60.5774	1899
66	40.3590	6553	91	61.5078	5144
67	41.1240	4293	92	62.4455	6064
68	41.8954	0483	93	63.3905	6195
69	42.6732	0765	94	64.3428	6895
70	43.4575	0622	95	65.3024	9340
71	44.2483	5375	96	66.2694	4527
72	45.0458	0184	97	67.2437	3271
73	45.8499	0048	98	68.2253	6206
74	46.6606	9800	99	69.2143	3785
75	47.4782	4109	100	70.2106	6282

$$e = 69^c$$

θ	mean anomaly		θ	mean anomaly	
100	70.2106	6282	125	97.4782	4109
101	71.2143	3785	126	98.6606	9800
102	72.2253	6206	127	99.8499	0048
103	73.2437	3271	128	101.0458	0184
104	74.2694	4527	129	102.2483	5375
105	75.3024	9340	130	103.4575	0622
106	76.3428	6895	131	104.6732	0765
107	77.3905	6195	132	105.8954	0483
108	78.4455	6064	133	107.1240	4293
109	79.5078	5144	134	108.3590	6553
110	80.5774	1899	135	109.6004	1465
111	81.6542	4612	136	110.8480	3073
112	82.7383	1388	137	112.1018	5269
113	83.8296	0152	138	113.3618	1789
114	84.9280	8652	139	114.6278	6220
115	86.0337	4457	140	115.8999	1997
116	87.1465	4962	141	117.1779	2407
117	88.2664	7383	142	118.4618	0591
118	89.3934	8760	143	119.7514	9545
119	90.5275	5960	144	121.0469	2121
120	91.6686	5676	145	122.3480	1029
121	92.8167	4424	146	123.6546	8842
122	93.9717	8552	147	124.9668	7992
123	95.1337	4235	148	126.2845	0776
124	96.3025	7476	149	127.6074	9358
125	97.4782	4109	150	128.9357	5767

$$e = 69^c$$

θ	mean anomaly		θ	mean anomaly	
150	128.9357	5767	175	163.6001	1420
151	130.2692	1905	176	165.0338	1357
152	131.6077	9544	177	166.4702	1869
153	132.9514	0331	178	167.9092	2188
154	134.2999	5786	179	169.3507	1481
155	135.6533	7310	180	170.7945	8856
156	137.0115	6184	181	172.2407	3361
157	138.3744	3569	182	173.6890	3987
158	139.7419	0512	183	175.1393	9674
159	141.1138	7946	184	176.5916	9310
160	142.4902	6693	185	178.0458	1734
161	143.8709	7466	186	179.5016	5743
162	145.2559	0873	187	180.9591	0088
163	146.6449	7415	188	182.4180	3484
164	148.0380	7493	189	183.8783	4606
165	149.4351	1408	190	185.3399	2097
166	150.8359	9363	191	186.8026	4569
167	152.2406	1467	192	188.2664	0605
168	153.6488	7736	193	189.7310	8761
169	155.0606	8098	194	191.1965	7572
170	156.4759	2392	195	192.6627	5554
171	157.8945	0373	196	194.1295	1204
172	159.3163	1712	197	195.5967	3006
173	160.7412	6002	198	197.0642	9431
174	162.1692	2757	199	198.5320	8943
175	163.6001	1420	200	200.0000	0000

$$e = 70^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	13.9397	0913
1	0.5460	2817	26	14.5216	5833
2	1.0921	6835	27	15.1064	3964
3	1.6385	3252	28	15.6941	5550
4	2.1852	3262	29	16.2849	0765
5	2.7323	8048	30	16.8787	9706
6	3.2800	8785	31	17.4759	2392
7	3.8284	6631	32	18.0763	8766
8	4.3776	2730	33	18.6802	8683
9	4.9276	8205	34	19.2877	1918
10	5.4787	4159	35	19.8987	8156
11	6.0309	1669	36	20.5135	6995
12	6.5843	1783	37	21.1321	7938
13	7.1390	5520	38	21.7547	0395
14	7.6952	3868	39	22.3812	3681
15	8.2529	7777	40	23.0118	7010
16	8.8123	8158	41	23.6466	9496
17	9.3735	5883	42	24.2858	0149
18	9.9366	1778	43	24.9292	7873
19	10.5016	6626	44	25.5772	1464
20	11.0688	1158	45	26.2296	9611
21	11.6381	6053	46	26.8868	0887
22	12.2098	1937	47	27.5486	3752
23	12.7838	9380	48	28.2152	6550
24	13.3604	8889	49	28.8867	7508
25	13.9397	0913	50	29.5632	4729

$$e = 70^c$$

θ	mean anomaly		θ	mean anomaly	
50	29.5632	4729	75	48.2980	9578
51	30.2447	6196	76	49.1276	6243
52	30.9313	9767	77	49.9638	5943
53	31.6232	3175	78	50.8067	2719
54	32.3203	4023	79	51.6563	0448
55	33.0227	9784	80	52.5126	2842
56	33.7306	7799	81	53.3757	3446
57	34.4440	5277	82	54.2456	5637
58	35.1629	9288	83	55.1224	2625
59	35.8875	6769	84	56.0060	7451
60	36.6178	4515	85	56.8966	2985
61	37.3538	9180	86	57.7941	1927
62	38.0957	7277	87	58.6985	6807
63	38.8435	5176	88	59.6099	9983
64	39.5972	9099	89	60.5284	3640
65	40.3570	5122	90	61.4538	9789
66	41.1228	9173	91	62.3864	0271
67	41.8948	7029	92	63.3259	6751
68	42.6730	4317	93	64.2726	0720
69	43.4574	6510	94	65.2263	3494
70	44.2481	8926	95	66.1871	6215
71	45.0452	6730	96	67.1550	9850
72	45.8487	4928	97	68.1301	5190
73	46.6586	8369	98	69.1123	2850
74	47.4751	1743	99	70.1016	3270
75	48.2980	9578	100	71.0980	6714

$$e = 70^c$$

θ	mean anomaly		θ	mean anomaly	
100	71.0980	6714	125	98.2980	9578
101	72.1016	3270	126	99.4751	1743
102	73.1123	2850	127	100.6586	8369
103	74.1301	5190	128	101.8487	4928
104	75.1550	9850	129	103.0452	6730
105	76.1871	6215	130	104.2481	8926
106	77.2263	3494	131	105.4574	6510
107	78.2726	0720	132	106.6730	4317
108	79.3259	6751	133	107.8948	7029
109	80.3864	0271	134	109.1228	9173
110	81.4538	9789	135	110.3570	5122
111	82.5284	3640	136	111.5972	9099
112	83.6099	9983	137	112.8435	5176
113	84.6985	6807	138	114.0957	7277
114	85.7941	1927	139	115.3538	9180
115	86.8966	2985	140	116.6178	4515
116	88.0060	7451	141	117.8875	6769
117	89.1224	2625	142	119.1629	9288
118	90.2456	5637	143	120.4440	5277
119	91.3757	3446	144	121.7306	7799
120	92.5126	2842	145	123.0227	9784
121	93.6563	0448	146	124.3203	4023
122	94.8067	2719	147	125.6232	3175
123	95.9638	5943	148	126.9313	9767
124	97.1276	6243	149	128.2447	6196
125	98.2980	9578	150	129.5632	4729

$$e = 70^c$$

θ	mean anomaly		θ	mean anomaly	
150	129.5632	4729	175	163.9397	0913
151	130.8867	7508	176	165.3604	8889
152	132.2152	6550	177	166.7838	9380
153	133.5486	3752	178	168.2098	1937
154	134.8868	0887	179	169.6381	6053
155	136.2296	9611	180	171.0688	1158
156	137.5772	1464	181	172.5016	6626
157	138.9292	7873	182	173.9366	1778
158	140.2858	0149	183	175.3735	5883
159	141.6466	9496	184	176.8123	8158
160	143.0118	7010	185	178.2529	7777
161	144.3812	3681	186	179.6952	3868
162	145.7547	0395	187	181.1390	5520
163	147.1321	7938	188	182.5843	1783
164	148.5135	6995	189	184.0309	1669
165	149.8987	8156	190	185.4787	4159
166	151.2877	1918	191	186.9276	8205
167	152.6802	8683	192	188.3776	2730
168	154.0763	8766	193	189.8284	6631
169	155.4759	2392	194	191.2800	8785
170	156.8787	9706	195	192.7323	8048
171	158.2849	0765	196	194.1852	3262
172	159.6941	5550	197	195.6385	3252
173	161.1064	3964	198	197.0921	6835
174	162.5216	5833	199	198.5460	2817
175	163.9397	0913	200	200.0000	0000

$$e = 71^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	14.2820	3302
1	0.5600	7892	26	14.8769	2119
2	1.1202	6639	27	15.4745	5382
3	1.6806	7091	28	16.0750	3017
4	2.2414	0097	29	16.6784	4883
5	2.8025	6492	30	17.2849	0765
6	3.3642	7107	31	17.8945	0373
7	3.9266	2754	32	18.5073	3339
8	4.4897	4232	33	19.1234	9217
9	5.0537	2320	34	19.7430	7477
10	5.6186	7777	35	20.3661	7505
11	6.1847	1336	36	20.9928	8601
12	6.7519	3705	37	21.6232	9975
13	7.3204	5563	38	22.2575	0746
14	7.8903	7554	39	22.8955	9939
15	8.4618	0292	40	23.5376	6484
16	9.0348	4350	41	24.1837	9213
17	9.6096	0262	42	24.8340	6857
18	10.1861	8522	43	25.4885	8044
19	10.7646	9575	44	26.1474	1300
20	11.3452	3823	45	26.8106	5041
21	11.9279	1614	46	27.4783	7577
22	12.5128	3245	47	28.1506	7107
23	13.1000	8957	48	28.8276	1715
24	13.6897	8935	49	29.5092	9374
25	14.2820	3302	50	30.1957	7936

$$e = 71^c$$

θ	mean anomaly		θ	mean anomaly	
50	30.1957	7936	75	49.1245	3877
51	30.8871	5138	76	49.9593	8045
52	31.5834	8595	77	50.8006	4727
53	32.2848	5798	78	51.6483	7838
54	32.9913	4117	79	52.5026	1136
55	33.7030	0792	80	53.3633	8218
56	34.4199	2939	81	54.2307	2519
57	35.1421	7543	82	55.1046	7311
58	35.8698	1455	83	55.9852	5705
59	36.6029	1396	84	56.8725	0647
60	37.3415	3952	85	57.7664	4920
61	38.0857	5572	86	58.6671	1140
62	38.8356	2566	87	59.5745	1758
63	39.5912	1107	88	60.4886	9059
64	40.3525	7224	89	61.4096	5160
65	41.1197	6806	90	62.3374	2012
66	41.8928	5598	91	63.2720	1397
67	42.6718	9197	92	64.2134	4928
68	43.4569	3055	93	65.1617	4050
69	44.2480	2477	94	66.1169	0040
70	45.0452	2618	95	67.0789	4004
71	45.8485	8479	96	68.0478	6878
72	46.6581	4915	97	69.0236	9430
73	47.4739	6622	98	70.0064	2254
74	48.2960	8147	99	70.9960	5779
75	49.1245	3877	100	71.9926	0258

$$e = 71^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
100	71.9926	0258	125	99.1245	3877
101	72.9960	5779	126	100.2960	8147
102	74.0064	2254	127	101.4739	6622
103	75.0236	9430	128	102.6581	4915
104	76.0478	6878	129	103.8485	8479
105	77.0789	4004	130	105.0452	2618
106	78.1169	0040	131	106.2480	2477
107	79.1617	4050	132	107.4569	3055
108	80.2134	4928	133	108.6718	9197
109	81.2720	1397	134	109.8928	5598
110	82.3374	2012	135	111.1197	6806
111	83.4096	5160	136	112.3525	7224
112	84.4886	9059	137	113.5912	1107
113	85.5745	1758	138	114.8356	2566
114	86.6671	1140	139	116.0857	5572
115	87.7664	4920	140	117.3415	3952
116	88.8725	0647	141	118.6029	1396
117	89.9852	5705	142	119.8698	1455
118	91.1046	7311	143	121.1421	7543
119	92.2307	2519	144	122.4199	2939
120	93.3633	8218	145	123.7030	0792
121	94.5026	1136	146	124.9913	4117
122	95.6483	7838	147	126.2848	5798
123	96.8006	4727	148	127.5834	8595
124	97.9593	8045	149	128.8871	5138
125	99.1245	3877	150	130.1957	7936

$$e = 71^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
150	130.1957	7936	175	164.2820	3302
151	131.5092	9374	176	165.6897	8935
152	132.8276	1715	177	167.1000	8957
153	134.1506	7107	178	168.5128	3245
154	135.4783	7577	179	169.9279	1614
155	136.8106	5041	180	171.3452	3823
156	138.1474	1300	181	172.7646	9575
157	139.4885	8044	182	174.1861	8522
158	140.8340	6857	183	175.6096	0262
159	142.1837	9213	184	177.0348	4350
160	143.5376	6484	185	178.4618	0292
161	144.8955	9939	186	179.8903	7554
162	146.2575	0746	187	181.3204	5563
163	147.6232	9975	188	182.7519	3705
164	148.9928	8601	189	184.1847	1336
165	150.3661	7505	190	185.6186	7777
166	151.7430	7477	191	187.0537	2320
167	153.1234	9217	192	188.4897	4232
168	154.5073	3339	193	189.9266	2754
169	155.8945	0373	194	191.3642	7107
170	157.2849	0765	195	192.8025	6492
171	158.6784	4883	196	194.2414	0097
172	160.0750	3017	197	195.6806	7091
173	161.4745	5382	198	197.1202	6639
174	162.8769	2119	199	198.5600	7892
175	164.2820	3302	200	200.0000	0000

$$e = 72^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	14.6270	0142
1	0.5742	3822	26	15.2349	2851
2	1.1485	8149	27	15.8455	1173
3	1.7231	3483	28	16.4588	4714
4	2.2980	0322	29	17.0750	3017
5	2.8732	9155	30	17.6941	5550
6	3.4491	0462	31	18.3163	1712
7	4.0255	4708	32	18.9416	0824
8	4.6027	2344	33	19.5701	2133
9	5.1807	3803	34	20.2019	4804
10	5.7596	9497	35	20.8371	7921
11	6.3396	9813	36	21.4759	0485
12	6.9208	5116	37	22.1182	1409
13	7.5032	5739	38	22.7641	9518
14	8.0870	1986	39	23.4139	3549
15	8.6722	4127	40	24.0675	2142
16	9.2590	2396	41	24.7250	3845
17	9.8474	6989	42	25.3865	7109
18	10.4376	8059	43	26.0522	0284
19	11.0297	5719	44	26.7220	1621
20	11.6238	0032	45	27.3960	9266
21	12.2199	1015	46	28.0745	1261
22	12.8181	8634	47	28.7573	5540
23	13.4187	2800	48	29.4446	9930
24	14.0216	3370	49	30.1366	2144
25	14.6270	0142	50	30.8331	9784

$$e = 72^c$$

θ	mean anomaly		θ	mean anomaly	
50	30.8331	9784	75	49.9573	6614
51	31.5345	0335	76	50.7975	2360
52	32.2406	1169	77	51.6438	9941
53	32.9515	9536	78	52.4965	3145
54	33.6675	2568	79	53.3554	5608
55	34.3884	7272	80	54.2207	0813
56	35.1145	0536	81	55.0923	2083
57	35.8456	9118	82	55.9703	2587
58	36.5820	9650	83	56.8547	5333
59	37.3237	8638	84	57.7456	3175
60	38.0708	2453	85	58.6429	8803
61	38.8232	7338	86	59.5468	4752
62	39.5811	9401	87	60.4572	3392
63	40.3446	4614	88	61.3741	6936
64	41.1136	8814	89	62.2976	7432
65	41.8883	7700	90	63.2277	6768
66	42.6687	6830	91	64.1644	6668
67	43.4549	1624	92	65.1077	8696
68	44.2468	7357	93	66.0577	4248
69	45.0446	9163	94	67.0143	4561
70	45.8484	2031	95	67.9776	0704
71	46.6581	0803	96	68.9475	3584
72	47.4738	0174	97	69.9241	3943
73	48.2955	4693	98	70.9074	2358
74	49.1233	8757	99	71.8973	9243
75	49.9573	6614	100	72.8940	4843

$$e = 72^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
100	72.8940	4843	125	99.9573	6614
101	73.8973	9243	126	101.1233	8757
102	74.9074	2358	127	102.2955	4693
103	75.9241	3943	128	103.4738	0174
104	76.9475	3584	129	104.6581	0803
105	77.9776	0704	130	105.8484	2031
106	79.0143	4561	131	107.0446	9163
107	80.0577	4248	132	108.2468	7357
108	81.1077	8696	133	109.4549	1624
109	82.1644	6668	134	110.6687	6830
110	83.2277	6768	135	111.8883	7700
111	84.2976	7432	136	113.1136	8814
112	85.3741	6936	137	114.3446	4614
113	86.4572	3392	138	115.5811	9401
114	87.5468	4752	139	116.8232	7338
115	88.6429	8803	140	118.0708	2453
116	89.7456	3175	141	119.3237	8638
117	90.8547	5333	142	120.5820	9650
118	91.9703	2587	143	121.8456	9118
119	93.0923	2083	144	123.1145	0536
120	94.2207	0813	145	124.3884	7272
121	95.3554	5608	146	125.6675	2568
122	96.4965	3145	147	126.9515	9536
123	97.6438	9941	148	128.2406	1169
124	98.7975	2360	149	129.5345	0335
125	99.9573	6614	150	130.8331	9784

$$e = 72^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
150	130.8331	9784	175	164.6270	0142
151	132.1366	2144	176	166.0216	3370
152	133.4446	9930	177	167.4187	2800
153	134.7573	5540	178	168.8181	8634
154	136.0745	1261	179	170.2199	1015
155	137.3960	9266	180	171.6238	0032
156	138.7220	1621	181	173.0297	5719
157	140.0522	0284	182	174.4376	8059
158	141.3865	7109	183	175.8474	6989
159	142.7250	3845	184	177.2590	2396
160	144.0675	2142	185	178.6722	4127
161	145.4139	3549	186	180.0870	1986
162	146.7641	9518	187	181.5032	5739
163	148.1182	1409	188	182.9208	5116
164	149.4759	0485	189	184.3396	9813
165	150.8371	7921	190	185.7596	9497
166	152.2019	4804	191	187.1807	3803
167	153.5701	2133	192	188.6027	2344
168	154.9416	0824	193	190.0255	4708
169	156.3163	1712	194	191.4491	0462
170	157.6941	5550	195	192.8732	9155
171	159.0750	3017	196	194.2980	0322
172	160.4588	4714	197	195.7231	3483
173	161.8455	1173	198	197.1485	8149
174	163.2349	2851	199	198.5742	3822
175	164.6270	0142	200	200.0000	0000

$$e = 73^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	14.9745	2919
1	0.5885	0256	26	15.5955	9195
2	1.1771	0666	27	16.2192	2184
3	1.7659	1379	28	16.8455	1173
4	2.3550	2541	29	17.4745	5382
5	2.9445	4291	30	18.1064	3964
6	3.5345	6756	31	18.7412	6002
7	4.1252	0052	32	19.3791	0506
8	4.7165	4279	33	20.0200	6411
9	5.3086	9521	34	20.6642	2577
10	5.9017	5840	35	21.3116	7784
11	6.4958	3277	36	21.9625	0729
12	7.0910	1847	37	22.6168	0028
13	7.6874	1540	38	23.2746	4212
14	8.2851	2312	39	23.9361	1721
15	8.8842	4091	40	24.6013	0910
16	9.4848	6766	41	25.2703	0038
17	10.0871	0193	42	25.9431	7272
18	10.6910	4186	43	26.6200	0685
19	11.2967	8515	44	27.3008	8250
20	11.9044	2911	45	27.9858	7840
21	12.5140	7052	46	28.6750	7229
22	13.1258	0571	47	29.3685	4084
23	13.7397	3047	48	30.0663	5969
24	14.3559	4007	49	30.7686	0340
25	14.9745	2919	50	31.4753	4543

$$e = 73^c$$

θ	mean anomaly		θ	mean anomaly	
50	31.4753	4543	75	50.7963	7240
51	32.1866	5814	76	51.6418	8509
52	32.9026	1277	77	52.4934	0778
53	33.6232	7939	78	53.3509	7711
54	34.3487	2692	79	54.2146	2821
55	35.0790	2311	80	55.0843	9474
56	35.8142	3451	81	55.9603	0881
57	36.5544	2644	82	56.8424	0106
58	37.2996	6301	83	57.7307	0056
59	38.0500	0708	84	58.6252	3489
60	38.8055	2024	85	59.5260	3006
61	39.5662	6283	86	60.4331	1055
62	40.3322	9387	87	61.3464	9929
63	41.1036	7109	88	62.2662	1765
64	41.8804	5090	89	63.1922	8543
65	42.6626	8838	90	64.1247	2088
66	43.4504	3726	91	65.0635	4067
67	44.2437	4991	92	66.0087	5989
68	45.0426	7732	93	66.9603	9206
69	45.8472	6911	94	67.9184	4911
70	46.6575	7348	95	68.8829	4140
71	47.4736	3725	96	69.8538	7768
72	48.2955	0580	97	70.8312	6512
73	49.1232	2308	98	71.8151	0931
74	49.9568	3160	99	72.8054	1423
75	50.7963	7240	100	73.8021	8227

$$e = 73^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
100	73.8021	8227	125	100.7963	7240
101	74.8054	1423	126	101.9568	3160
102	75.8151	0931	127	103.1232	2308
103	76.8312	6512	128	104.2955	0580
104	77.8538	7768	129	105.4736	3725
105	78.8829	4140	130	106.6575	7348
106	79.9184	4911	131	107.8472	6911
107	80.9603	9206	132	109.0426	7732
108	82.0087	5989	133	110.2437	4991
109	83.0635	4067	134	111.4504	3726
110	84.1247	2088	135	112.6626	8838
111	85.1922	8543	136	113.8804	5090
112	86.2662	1765	137	115.1036	7109
113	87.3464	9929	138	116.3322	9387
114	88.4331	1055	139	117.5662	6283
115	89.5260	3006	140	118.8055	2024
116	90.6252	3489	141	120.0500	0708
117	91.7307	0056	142	121.2996	6301
118	92.8424	0106	143	122.5544	2644
119	93.9603	0881	144	123.8142	3451
120	95.0843	9474	145	125.0790	2311
121	96.2146	2821	146	126.3487	2692
122	97.3509	7711	147	127.6232	7939
123	98.4934	0778	148	128.9026	1277
124	99.6418	8509	149	130.1866	5814
125	100.7963	7240	150	131.4753	4543

$$e = 73^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
150	131.4753	4543	175	164.9745	2919
151	132.7686	0340	176	166.3559	4007
152	134.0663	5969	177	167.7397	3047
153	135.3685	4084	178	169.1258	0571
154	136.6750	7229	179	170.5140	7052
155	137.9858	7840	180	171.9044	2911
156	139.3008	8250	181	173.2967	8515
157	140.6200	0685	182	174.6910	4186
158	141.9431	7272	183	176.0871	0193
159	143.2703	0038	184	177.4848	6766
160	144.6013	0910	185	178.8842	4091
161	145.9361	1721	186	180.2851	2312
162	147.2746	4212	187	181.6874	1540
163	148.6168	0028	188	183.0910	1847
164	149.9625	0729	189	184.4958	3277
165	151.3116	7784	190	185.9017	5840
166	152.6642	2577	191	187.3086	9521
167	154.0200	6411	192	188.7165	4279
168	155.3791	0506	193	190.1252	0052
169	156.7412	6002	194	191.5345	6756
170	158.1064	3964	195	192.9445	4291
171	159.4745	5382	196	194.3550	2541
172	160.8455	1173	197	195.7659	1379
173	162.2192	2184	198	197.1771	0666
174	163.5955	9195	199	198.5885	0256
175	164.9745	2919	200	200.0000	0000

$$e = 74^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	15.3245	3060
1	0.6028	6844	26	15.9588	2252
2	1.2058	3487	27	16.5955	9195
3	1.8089	9724	28	17.2349	2851
4	2.4124	5348	29	17.8769	2119
5	3.0163	0142	30	18.5216	5833
6	3.6206	3881	31	19.1692	2757
7	4.2255	6327	32	19.8197	1588
8	4.8311	7229	33	20.4732	0950
9	5.4375	6316	34	21.1297	9391
10	6.0448	3301	35	21.7895	5385
11	6.6530	7874	36	22.4525	7328
12	7.2623	9700	37	23.1189	3532
13	7.8728	8420	38	23.7887	2231
14	8.4846	3644	39	24.4620	1573
15	9.0977	4951	40	25.1388	9617
16	9.7123	1888	41	25.8194	4337
17	10.3284	3963	42	26.5037	3614
18	10.9462	0650	43	27.1918	5238
19	11.5657	1378	44	27.8838	6905
20	12.1870	5536	45	28.5798	6213
21	12.8103	2466	46	29.2799	0664
22	13.4356	1465	47	29.9840	7658
23	14.0630	1777	48	30.6924	4494
24	14.6926	2596	49	31.4050	8368
25	15.3245	3060	50	32.1220	6371

$$e = 74^c$$

θ	mean anomaly		θ	mean anomaly	
50	32.1220	6371	75	51.6413	5055
51	32.8434	5485	76	52.4922	5658
52	33.5693	2584	77	53.3489	6280
53	34.2997	4433	78	54.2115	0455
54	35.0347	7682	79	55.0799	1576
55	35.7744	8870	80	55.9542	2889
56	36.5189	4419	81	56.8344	7496
57	37.2682	0634	82	57.7206	8351
58	38.0223	3701	83	58.6128	8261
59	38.7813	9687	84	59.5110	9887
60	39.5454	4537	85	60.4153	5741
61	40.3145	4072	86	61.3256	8183
62	41.0887	3991	87	62.2420	9428
63	41.8680	9863	88	63.1646	1536
64	42.6526	7133	89	64.0932	6421
65	43.4425	1117	90	65.0280	5842
66	44.2376	6999	91	65.9690	1408
67	45.0381	9834	92	66.9161	4577
68	45.8441	4544	93	67.8694	6652
69	46.6555	5917	94	68.8289	8785
70	47.4724	8605	95	69.7947	1976
71	48.2949	7126	96	70.7666	7069
72	49.1230	5859	97	71.7448	4756
73	49.9567	9047	98	72.7292	5577
74	50.7962	0792	99	73.7198	9915
75	51.6413	5055	100	74.7167	8003

$$e = 74^c$$

θ	mean anomaly		θ	mean anomaly	
100	74.7167	8003	125	101.6413	5055
101	75.7198	9915	126	102.7962	0792
102	76.7292	5577	127	103.9567	9047
103	77.7448	4756	128	105.1230	5859
104	78.7666	7069	129	106.2949	7126
105	79.7947	1976	130	107.4724	8605
106	80.8289	8785	131	108.6555	5917
107	81.8694	6652	132	109.8441	4544
108	82.9161	4577	133	111.0381	9834
109	83.9690	1408	134	112.2376	6999
110	85.0280	5842	135	113.4425	1117
111	86.0932	6421	136	114.6526	7133
112	87.1646	1536	137	115.8680	9863
113	88.2420	9428	138	117.0887	3991
114	89.3256	8183	139	118.3145	4072
115	90.4153	5741	140	119.5454	4537
116	91.5110	9887	141	120.7813	9687
117	92.6128	8261	142	122.0223	3701
118	93.7206	8351	143	123.2682	0634
119	94.8344	7496	144	124.5189	4419
120	95.9542	2889	145	125.7744	8870
121	97.0799	1576	146	127.0347	7682
122	98.2115	0455	147	128.2997	4433
123	99.3489	6280	148	129.5693	2584
124	100.4922	5658	149	130.8434	5485
125	101.6413	5055	150	132.1220	6371

$$e = 74^c$$

θ	mean anomaly		θ	mean anomaly	
150	132.1220	6371	175	165.3245	3060
151	133.4050	8368	176	166.6926	2596
152	134.6924	4494	177	168.0630	1777
153	135.9840	7658	178	169.4356	1465
154	137.2799	0664	179	170.8103	2466
155	138.5798	6213	180	172.1870	5536
156	139.8838	6905	181	173.5657	1378
157	141.1918	5238	182	174.9462	0650
158	142.5037	3614	183	176.3284	3963
159	143.8194	4337	184	177.7123	1888
160	145.1388	9617	185	179.0977	4951
161	146.4620	1573	186	180.4846	3644
162	147.7887	2231	187	181.8728	8420
163	149.1189	3532	188	183.2623	9700
164	150.4525	7328	189	184.6530	7874
165	151.7895	5385	190	186.0448	3301
166	153.1297	9391	191	187.4375	6316
167	154.4732	0950	192	188.8311	7229
168	155.8197	1588	193	190.2255	6327
169	157.1692	2757	194	191.6206	3881
170	158.5216	5833	195	193.0163	0142
171	159.8769	2119	196	194.4124	5348
172	161.2349	2851	197	195.8089	9724
173	162.5955	9195	198	197.2058	3487
174	163.9588	2252	199	198.6028	6844
175	165.3245	3060	200	200.0000	0000

$$e = 75^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	15.6769	1929
1	0.6173	3230	26	16.3245	3060
2	1.2347	5903	27	16.9745	2919
3	1.8523	7456	28	17.6270	0142
4	2.4702	7325	29	18.2820	3302
5	3.0885	4938	30	18.9397	0913
6	3.7072	9714	31	19.6001	1420
7	4.3266	1058	32	20.2633	3202
8	4.9465	8364	33	20.9294	4568
9	5.5673	1009	34	21.5985	3758
10	6.1888	8350	35	22.2706	8935
11	6.8113	9725	36	22.9459	8188
12	7.4349	4447	37	23.6244	9531
13	8.0596	1805	38	24.3063	0893
14	8.6855	1059	39	24.9915	0127
15	9.3127	1441	40	25.6801	5000
16	9.9413	2148	41	26.3723	3193
17	10.5714	2344	42	27.0681	2303
18	11.2031	1155	43	27.7675	9834
19	11.8364	7670	44	28.4708	3202
20	12.4716	0933	45	29.1778	9728
21	13.1085	9949	46	29.8888	6642
22	13.7475	3673	47	30.6038	1074
23	14.3885	1014	48	31.3228	0057
24	15.0316	0830	49	32.0459	0525
25	15.6769	1929	50	32.7731	9310

$$e = 75^c$$

θ	mean anomaly		θ	mean anomaly	
50	32.7731	9310	75	52.4920	9210
51	33.5047	3140	76	53.3484	2825
52	34.2405	8640	77	54.2103	5335
53	34.9808	2328	78	55.0779	0145
54	35.7255	0611	79	55.9511	0523
55	36.4746	9790	80	56.8299	9598
56	37.2284	6053	81	57.7146	0359
57	37.9868	5476	82	58.6049	5652
58	38.7499	4020	83	59.5010	8182
59	39.5177	7530	84	60.4030	0513
60	40.2904	1735	85	61.3107	5065
61	41.0679	2245	86	62.2243	4113
62	41.8503	4548	87	63.1437	9791
63	42.6377	4015	88	64.0691	4084
64	43.4301	5889	89	65.0003	8835
65	44.2276	5294	90	65.9375	5741
66	45.0302	7225	91	66.8806	6352
67	45.8380	6553	92	67.8297	2071
68	46.6510	8019	93	68.7847	4156
69	47.4693	6239	94	69.7457	3716
70	48.2929	5695	95	70.7127	1714
71	49.1219	0739	96	71.6856	8964
72	49.9562	5593	97	72.6646	6133
73	50.7960	4343	98	73.6496	3741
74	51.6413	0943	99	74.6406	2157
75	52.4920	9210	100	75.6376	1604

$$e = 75^c$$

θ	mean anomaly		θ	mean anomaly	
100	75.6376	1604	125	102.4920	9210
101	76.6406	2157	126	103.6413	0943
102	77.6496	3741	127	104.7960	4343
103	78.6646	6133	128	105.9562	5593
104	79.6856	8964	129	107.1219	0739
105	80.7127	1714	130	108.2929	5695
106	81.7457	3716	131	109.4693	6239
107	82.7847	4156	132	110.6510	8019
108	83.8297	2071	133	111.8380	6553
109	84.8806	6352	134	113.0302	7225
110	85.9375	5741	135	114.2276	5294
111	87.0003	8835	136	115.4301	5889
112	88.0691	4084	137	116.6377	4015
113	89.1437	9791	138	117.8503	4548
114	90.2243	4113	139	119.0679	2245
115	91.3107	5065	140	120.2904	1735
116	92.4030	0513	141	121.5177	7530
117	93.5010	8182	142	122.7499	4020
118	94.6049	5652	143	123.9868	5476
119	95.7146	0359	144	125.2284	6053
120	96.8299	9598	145	126.4746	9790
121	97.9511	0523	146	127.7255	0611
122	99.0779	0145	147	128.9808	2328
123	100.2103	5335	148	130.2405	8640
124	101.3484	2825	149	131.5047	3140
125	102.4920	9210	150	132.7731	9310

$$e = 75^c$$

θ	mean anomaly		θ	mean anomaly	
150	132.7731	9310	175	165.6769	1929
151	134.0459	0525	176	167.0316	0830
152	135.3228	0057	177	168.3885	1014
153	136.6038	1074	178	169.7475	3673
154	137.8888	6642	179	171.1085	9949
155	139.1778	9728	180	172.4716	0933
156	140.4708	3202	181	173.8364	7670
157	141.7675	9834	182	175.2031	1155
158	143.0681	2303	183	176.5714	2344
159	144.3723	3193	184	177.9413	2148
160	145.6801	5000	185	179.3127	1441
161	146.9915	0127	186	180.6855	1059
162	148.3063	0893	187	182.0596	1805
163	149.6244	9531	188	183.4349	4447
164	150.9459	8188	189	184.8113	9725
165	152.2706	8935	190	186.1888	8350
166	153.5985	3758	191	187.5673	1009
167	154.9294	4568	192	188.9465	8364
168	156.2633	3202	193	190.3266	1058
169	157.6001	1420	194	191.7072	9714
170	158.9397	0913	195	193.0885	4938
171	160.2820	3302	196	194.4702	7325
172	161.6270	0142	197	195.8523	7456
173	162.9745	2919	198	197.2347	5903
174	164.3245	3060	199	198.6173	3230
175	165.6769	1929	200	200.0000	0000

$$e = 76^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	16.0316	0830
1	0.6318	9059	26	16.6926	2596
2	1.2638	7200	27	17.3559	4007
3	1.8960	3504	28	18.0216	3370
4	2.5284	7046	29	18.6897	8935
5	3.1612	6897	30	19.3604	8889
6	3.7945	2115	31	20.0338	1357
7	4.4283	1750	32	20.7098	4400
8	5.0627	4838	33	21.3886	6010
9	5.6979	0398	34	22.0703	4112
10	6.3338	7432	35	22.7549	6561
11	6.9707	4923	36	23.4426	1138
12	7.6086	1829	37	24.1333	5549
13	8.2475	7086	38	24.8272	7426
14	8.8876	9602	39	25.5244	4320
15	9.5290	8256	40	26.2249	3703
16	10.1718	1897	41	26.9288	2966
17	10.8159	9340	42	27.6361	9413
18	11.4616	9364	43	28.3471	0266
19	12.1090	0711	44	29.0616	2657
20	12.7580	2083	45	29.7798	3630
21	13.4088	2140	46	30.5018	0138
22	14.0614	9497	47	31.2275	9041
23	14.7161	2726	48	31.9572	7104
24	15.3728	0346	49	32.6909	0998
25	16.0316	0830	50	33.4285	7294

$$e = 76^c$$

θ	mean anomaly		θ	mean anomaly	
50	33.4285	7294	75	53.3483	8713
51	34.1703	2465	76	54.2101	8886
52	34.9162	2884	77	55.0773	6690
53	35.6663	4819	78	55.9499	5403
54	36.4207	4435	79	56.8279	8167
55	37.1794	7794	80	57.7114	7992
56	37.9426	0847	81	58.6004	7754
57	38.7101	9440	82	59.4950	0190
58	39.4822	9306	83	60.3950	7903
59	40.2589	6068	84	61.3007	3359
60	41.0402	5238	85	62.2119	8886
61	41.8262	2211	86	63.1288	6672
62	42.6169	2269	87	64.0513	8769
63	43.4124	0575	88	64.9795	7090
64	44.2127	2175	89	65.9134	3404
65	45.0179	1997	90	66.8529	9345
66	45.8280	4847	91	67.7982	6404
67	46.6431	5410	92	68.7492	5931
68	47.4632	8247	93	69.7059	9136
69	48.2884	7797	94	70.6684	7085
70	49.1187	8373	95	71.6367	0705
71	49.9542	4162	96	72.6107	0779
72	50.7948	9223	97	73.5904	7948
73	51.6407	7489	98	74.5760	2713
74	52.4919	2761	99	75.5673	5429
75	53.3483	8713	100	76.5644	6311

$$e = 76^c$$

θ	mean anomaly		θ	mean anomaly	
100	76.5644	6311	125	103.3483	8713
101	77.5673	5429	126	104.4919	2761
102	78.5760	2713	127	105.6407	7489
103	79.5904	7948	128	106.7948	9223
104	80.6107	0779	129	107.9542	4162
105	81.6367	0705	130	109.1187	8373
106	82.6684	7085	131	110.2884	7797
107	83.7059	9136	132	111.4632	8247
108	84.7492	5931	133	112.6431	5410
109	85.7982	6404	134	113.8280	4847
110	86.8529	9345	135	115.0179	1997
111	87.9134	3404	136	116.2127	2175
112	88.9795	7090	137	117.4124	0575
113	90.0513	8769	138	118.6169	2269
114	91.1288	6672	139	119.8262	2211
115	92.2119	8886	140	121.0402	5238
116	93.3007	3359	141	122.2589	6068
117	94.3950	7903	142	123.4822	9306
118	95.4950	0190	143	124.7101	9440
119	96.6004	7754	144	125.9426	0847
120	97.7114	7992	145	127.1794	7794
121	98.8279	8167	146	128.4207	4435
122	99.9499	5403	147	129.6663	4819
123	101.0773	6690	148	130.9162	2884
124	102.2101	8886	149	132.1703	2465
125	103.3483	8713	150	133.4285	7294

$$e = 76^c$$

θ	mean anomaly		θ	mean anomaly	
150	133.4285	7294	175	166.0316	0830
151	134.6909	0998	176	167.3728	0346
152	135.9572	7104	177	168.7161	2726
153	137.2275	9041	178	170.0614	9497
154	138.5018	0138	179	171.4088	2140
155	139.7798	3630	180	172.7580	2083
156	141.0616	2657	181	174.1090	0711
157	142.3471	0266	182	175.4616	9364
158	143.6361	9413	183	176.8159	9340
159	144.9288	2966	184	178.1718	1897
160	146.2249	3703	185	179.5290	8256
161	147.5244	4320	186	180.8876	9602
162	148.8272	7426	187	182.2475	7086
163	150.1333	5549	188	183.6086	1829
164	151.4426	1138	189	184.9707	4923
165	152.7549	6561	190	186.3338	7432
166	154.0703	4112	191	187.6979	0398
167	155.3886	6010	192	189.0627	4838
168	156.7098	4400	193	190.4283	1750
169	158.0338	1357	194	191.7945	2115
170	159.3604	8889	195	193.1612	6897
171	160.6897	8935	196	194.5284	7046
172	162.0216	3370	197	195.8960	3504
173	163.3559	4007	198	197.2638	7200
174	164.6926	2596	199	198.6318	9059
175	166.0316	0830	200	200.0000	0000

$$e = 77^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	16.3885	1014
1	0.6465	3969	26	17.0630	1777
2	1.2931	6660	27	17.7397	3047
3	1.9399	6790	28	18.4187	2800
4	2.5870	3075	29	19.1000	8957
5	3.2344	4223	30	19.7838	9380
6	3.8822	8933	31	20.4702	1869
7	4.5306	5895	32	21.1591	4165
8	5.1796	3784	33	21.8507	3943
9	5.8293	1262	34	22.5450	8813
10	6.4797	6971	35	23.2422	6315
11	7.1310	9537	36	23.9423	3922
12	7.7833	7562	37	24.6453	9033
13	8.4366	9626	38	25.3514	8976
14	9.0911	4283	39	26.0607	1003
15	9.7468	0058	40	26.7731	2286
16	10.4037	5448	41	27.4887	9923
17	11.0620	8918	42	28.2078	0929
18	11.7218	8896	43	28.9302	2237
19	12.3832	3777	44	29.6561	0695
20	13.0462	1917	45	30.3855	3067
21	13.7109	1631	46	31.1185	6029
22	14.3774	1193	47	31.8552	6169
23	15.0457	8830	48	32.5956	9982
24	15.7161	2726	49	33.3399	3874
25	16.3885	1014	50	34.0880	4154

$$e = 77^c$$

θ	mean anomaly		θ	mean anomaly	
50	34.0880	4154	75	54.2100	2438
51	34.8400	7038	76	55.0773	2578
52	35.5960	8644	77	55.9497	8954
53	36.3561	4992	78	56.8274	4713
54	37.1203	2002	79	57.7103	2872
55	37.8886	5493	80	58.5984	6323
56	38.6612	1180	81	59.4918	7824
57	39.4380	4677	82	60.3906	0006
58	40.2192	1488	83	61.2946	5367
59	41.0047	7013	84	62.2040	6276
60	41.7947	6544	85	63.1188	4967
61	42.5892	5262	86	64.0390	3542
62	43.3882	8238	87	64.9646	3971
63	44.1919	0429	88	65.8956	8090
64	45.0001	6683	89	66.8321	7600
65	45.8131	1729	90	67.7741	4067
66	46.6308	0182	91	68.7215	8925
67	47.4532	6542	92	69.6745	3469
68	48.2805	5187	93	70.6329	8860
69	49.1127	0381	94	71.5969	6124
70	49.9497	6264	95	72.5664	6150
71	50.7917	6857	96	73.5414	9689
72	51.6387	6057	97	74.5220	7358
73	52.4907	7641	98	75.5081	9637
74	53.3478	5259	99	76.4998	6867
75	54.2100	2438	100	77.4970	9254

$$e = 77^c$$

θ	mean anomaly		θ	mean anomaly	
100	77.4970	9254	125	104.2100	2438
101	78.4998	6867	126	105.3478	5259
102	79.5081	9637	127	106.4907	7641
103	80.5220	7358	128	107.6387	6057
104	81.5414	9689	129	108.7917	6857
105	82.5664	6150	130	109.9497	6264
106	83.5969	6124	131	111.1127	0381
107	84.6329	8860	132	112.2805	5187
108	85.6745	3469	133	113.4532	6542
109	86.7215	8925	134	114.6308	0182
110	87.7741	4067	135	115.8131	1729
111	88.8321	7600	136	117.0001	6683
112	89.8956	8090	137	118.1919	0429
113	90.9646	3971	138	119.3882	8238
114	92.0390	3542	139	120.5892	5262
115	93.1188	4967	140	121.7947	6544
116	94.2040	6276	141	123.0047	7013
117	95.2946	5367	142	124.2192	1488
118	96.3906	0006	143	125.4380	4677
119	97.4918	7824	144	126.6612	1180
120	98.5984	6323	145	127.8886	5493
121	99.7103	2872	146	129.1203	2002
122	100.8274	4713	147	130.3561	4992
123	101.9497	8954	148	131.5960	8644
124	103.0773	2578	149	132.8400	7038
125	104.2100	2438	150	134.0880	4154

$$e = 77^c$$

θ	mean anomaly		θ	mean anomaly	
150	134.0880	4154	175	166.3885	1014
151	135.3399	3874	176	167.7161	2726
152	136.5956	9982	177	169.0457	8830
153	137.8552	6169	178	170.3774	1193
154	139.1185	6029	179	171.7109	1631
155	140.3855	3067	180	173.0462	1917
156	141.6561	0695	181	174.3832	3777
157	142.9302	2237	182	175.7218	8896
158	144.2078	0929	183	177.0620	8918
159	145.4887	9923	184	178.4037	5448
160	146.7731	2286	185	179.7468	0058
161	148.0607	1003	186	181.0911	4283
162	149.3514	8976	187	182.4366	9626
163	150.6453	9033	188	183.7833	7562
164	151.9423	3922	189	185.1310	9537
165	153.2422	6315	190	186.4797	6971
166	154.5450	8813	191	187.8293	1262
167	155.8507	3943	192	189.1796	3784
168	157.1591	4165	193	190.5306	5895
169	158.4702	1869	194	191.8822	8933
170	159.7838	9380	195	193.2344	4223
171	161.1000	8957	196	194.5870	3075
172	162.4187	2800	197	195.9399	6790
173	163.7397	3047	198	197.2931	6660
174	165.0630	1777	199	198.6465	3969
175	166.3885	1014	200	200.0000	0000

$$e = 78^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	16.7475	3673
1	0.6612	7601	26	17.4356	1465
2	1.3226	3559	27	18.1258	0571
3	1.9841	6231	28	18.8181	8634
4	2.6459	3967	29	19.5128	3245
5	3.3080	5112	30	20.2098	1937
6	3.9705	8003	31	20.9092	2188
7	4.6336	0967	32	21.6111	1413
8	5.2972	2319	33	22.3155	6969
9	5.9615	0357	34	23.0226	6146
10	6.6265	3366	35	23.7324	6174
11	7.2923	9610	36	24.4450	4211
12	7.9591	7334	37	25.1604	7349
13	8.6269	4759	38	25.8788	2610
14	9.2958	0082	39	26.6001	6942
15	9.9658	1475	40	27.3245	7222
16	10.6370	7078	41	28.0521	0250
17	11.3096	5004	42	28.7828	2747
18	11.9836	3331	43	29.5168	1358
19	12.6591	0102	44	30.2541	2646
20	13.3361	3326	45	30.9948	3094
21	14.0148	0971	46	31.7389	9098
22	14.6952	0964	47	32.4866	6971
23	15.3774	1193	48	33.2379	2939
24	16.0614	9497	49	33.9928	3138
25	16.7475	3673	50	34.7514	3618

$$e = 78^c$$

θ	mean anomaly		θ	mean anomaly	
50	34.7514	3618	75	55.0767	9124
51	35.5138	0332	76	55.9496	2506
52	36.2799	9146	77	56.8274	0600
53	37.0500	5827	78	57.7101	6424
54	37.8240	6049	79	58.5979	2868
55	38.6020	5388	80	59.4907	2704
56	39.3840	9322	81	60.3885	8575
57	40.1702	3228	82	61.2915	3001
58	40.9605	2384	83	62.1995	8378
59	41.7550	1964	84	63.1127	6975
60	42.5537	7037	85	64.0311	0932
61	43.3568	2571	86	64.9546	2266
62	44.1642	3423	87	65.8833	2862
63	44.9760	4346	88	66.8172	4481
64	45.7922	9983	89	67.7563	8753
65	46.6130	4868	90	68.7007	7179
66	47.4383	3423	91	69.6504	1132
67	48.2681	9960	92	70.6053	1854
68	49.1026	8676	93	71.5655	0457
69	49.9418	3654	94	72.5309	7925
70	50.7856	8865	95	73.5017	5108
71	51.6342	8160	96	74.4778	2729
72	52.4876	5275	97	75.4592	1377
73	53.3458	3828	98	76.4459	1512
74	54.2088	7317	99	77.4379	3462
75	55.0767	9124	100	78.4352	7423

$$e = 78^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
100	78.4352	7423	125	105.0767	9124
101	79.4379	3462	126	106.2088	7317
102	80.4459	1512	127	107.3458	3828
103	81.4592	1377	128	108.4876	5275
104	82.4778	2729	129	109.6342	8160
105	83.5017	5108	130	110.7856	8865
106	84.5309	7925	131	111.9418	3654
107	85.5655	0457	132	113.1026	8676
108	86.6053	1854	133	114.2681	9960
109	87.6504	1132	134	115.4383	3423
110	88.7007	7179	135	116.6130	4868
111	89.7563	8753	136	117.7922	9983
112	90.8172	4481	137	118.9760	4346
113	91.8833	2862	138	120.1642	3423
114	92.9546	2266	139	121.3568	2571
115	94.0311	0932	140	122.5537	7037
116	95.1127	6975	141	123.7550	1964
117	96.1995	8378	142	124.9605	2384
118	97.2915	3001	143	126.1702	3228
119	98.3885	8575	144	127.3840	9322
120	99.4907	2704	145	128.6020	5388
121	100.5979	2868	146	129.8240	6049
122	101.7101	6424	147	131.0500	5827
123	102.8274	0600	148	132.2799	9146
124	103.9496	2506	149	133.5138	0332
125	105.0767	9124	150	134.7514	3618

$$e = 78^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
150	134.7514	3618	175	166.7475	3673
151	135.9928	3138	176	168.0614	9497
152	137.2379	2939	177	169.3774	1193
153	138.4866	6971	178	170.6952	0964
154	139.7389	9098	179	172.0148	0971
155	140.9948	3094	180	173.3361	3326
156	142.2541	2646	181	174.6591	0102
157	143.5168	1358	182	175.9836	3331
158	144.7828	2747	183	177.3096	5004
159	146.0521	0250	184	178.6370	7078
160	147.3245	7222	185	179.9658	1475
161	148.6001	6942	186	181.2958	0082
162	149.8788	2610	187	182.6269	4759
163	151.1604	7349	188	183.9591	7334
164	152.4450	4211	189	185.2923	9610
165	153.7324	6174	190	186.6265	3366
166	155.0226	6146	191	187.9615	0357
167	156.3155	6969	192	189.2972	2319
168	157.6111	1413	193	190.6336	0967
169	158.9092	2188	194	191.9705	8003
170	160.2098	1937	195	193.3080	5112
171	161.5128	3245	196	194.6459	3967
172	162.8181	8634	197	195.9841	6231
173	164.1258	0571	198	197.3226	3559
174	165.4356	1465	199	198.6612	7601
175	166.7475	3673	200	200.0000	0000

$$e = 79^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	17.1085	9949
1	0.6760	9590	26	17.8103	2466
2	1.3522	7172	27	18.5140	7052
3	2.0286	0736	28	19.2199	1015
4	2.7051	8268	29	19.9279	1614
5	3.3820	7747	30	20.6381	6053
6	4.0593	7146	31	21.3507	1481
7	4.7371	4427	32	22.0656	4991
8	5.4154	7540	33	22.7830	3616
9	6.0944	4423	34	23.5029	4329
10	6.7741	2996	35	24.2254	4042
11	7.4546	1163	36	24.9505	9601
12	8.1359	6807	37	25.6784	7787
13	8.8182	7790	38	26.4091	5315
14	9.5016	1951	39	27.1426	8830
15	10.1860	7102	40	27.8791	4906
16	10.8717	1030	41	28.6186	0046
17	11.5586	1491	42	29.3611	0678
18	12.2468	6210	43	30.1067	3156
19	12.9365	2879	44	30.8555	3757
20	13.6276	9155	45	31.6075	8677
21	14.3204	2659	46	32.3629	4035
22	15.0148	0971	47	33.1216	5867
23	15.7109	1631	48	33.8838	0127
24	16.4088	2140	49	34.6494	2682
25	17.1085	9949	50	35.4185	9317

$$e = 79^c$$

θ	mean anomaly		θ	mean anomaly	
50	35.4185	9317	75	55.9484	7385
51	36.1913	5725	76	56.8268	7146
52	36.9677	7515	77	57.7099	9975
53	37.7479	0203	78	58.5978	8756
54	38.5317	9213	79	59.4905	6255
55	39.3194	9878	80	60.3880	5120
56	40.1110	7436	81	61.2903	7881
57	40.9065	7030	82	62.1975	6947
58	41.7060	3705	83	63.1096	4608
59	42.5095	2408	84	64.0266	3035
60	43.3170	7990	85	64.9485	4274
61	44.1287	5198	86	65.8754	0253
62	44.9445	8679	87	66.8072	2776
63	45.7646	2976	88	67.7440	3525
64	46.5889	2531	89	68.6858	4061
65	47.4175	1677	90	69.6326	5817
66	48.2504	4645	91	70.5845	0108
67	49.0877	5557	92	71.5413	8120
68	49.9294	8427	93	72.5033	0918
69	50.7756	7159	94	73.4702	9442
70	51.6263	5550	95	74.4423	4505
71	52.4815	7283	96	75.4194	6797
72	53.3413	5930	97	76.4016	6883
73	54.2057	4951	98	77.3889	5202
74	55.0747	7693	99	78.3813	2069
75	55.9484	7385	100	79.3787	7670

$$e = 79^c$$

θ	mean anomaly		θ	mean anomaly	
100	79.3787	7670	125	105.9484	7385
101	80.3813	2069	126	107.0747	7693
102	81.3889	5202	127	108.2057	4951
103	82.4016	6883	128	109.3413	5930
104	83.4194	6797	129	110.4815	7283
105	84.4423	4505	130	111.6263	5550
106	85.4702	9442	131	112.7756	7159
107	86.5033	0918	132	113.9294	8427
108	87.5413	8120	133	115.0877	5557
109	88.5845	0108	134	116.2504	4645
110	89.6326	5817	135	117.4175	1677
111	90.6858	4061	136	118.5889	2531
112	91.7440	3525	137	119.7646	2976
113	92.8072	2776	138	120.9445	8679
114	93.8754	0253	139	122.1287	5198
115	94.9485	4274	140	123.3170	7990
116	96.0266	3035	141	124.5095	2408
117	97.1096	4608	142	125.7060	3705
118	98.1975	6947	143	126.9065	7030
119	99.2903	7881	144	128.1110	7436
120	100.3880	5120	145	129.3194	9878
121	101.4905	6255	146	130.5317	9213
122	102.5978	8756	147	131.7479	0203
123	103.7099	9975	148	132.9677	7515
124	104.8268	7146	149	134.1913	5725
125	105.9484	7385	150	135.4185	9317

$$e = 79^c$$

θ	mean anomaly		θ	mean anomaly	
150	135.4185	9317	175	167.1085	9949
151	136.6494	2682	176	168.4088	2140
152	137.8838	0127	177	169.7109	1631
153	139.1216	5867	178	171.0148	0971
154	140.3629	4035	179	172.3204	2659
155	141.6075	8677	180	173.6276	9155
156	142.8555	3757	181	174.9365	2879
157	144.1067	3156	182	176.2468	6210
158	145.3611	0678	183	177.5586	1491
159	146.6186	0046	184	178.8717	1030
160	147.8791	4906	185	180.1860	7102
161	149.1426	8830	186	181.5016	1951
162	150.4091	5315	187	182.8182	7790
163	151.6784	7787	188	184.1359	6807
164	152.9505	9601	189	185.4546	1163
165	154.2254	4042	190	186.7741	2996
166	155.5029	4329	191	188.0944	4423
167	156.7830	3616	192	189.4154	7540
168	158.0656	4991	193	190.7371	4427
169	159.3507	1481	194	192.0593	7146
170	160.6381	6053	195	193.3820	7747
171	161.9279	1614	196	194.7051	8268
172	163.2199	1015	197	196.0286	0736
173	164.5140	7052	198	197.3522	7172
174	165.8103	2466	199	198.6760	9590
175	167.1085	9949	200	200.0000	0000

$$e = 80^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	17.4716	0933
1	0.6909	9571	26	18.1870	5536
2	1.3820	6767	27	18.9044	2911
3	2.0732	9209	28	19.6238	0032
4	2.7647	4516	29	20.3452	3823
5	3.4565	0302	30	21.0688	1158
6	4.1486	4170	31	21.7945	8856
7	4.8412	3719	32	22.5226	3684
8	5.5343	6531	33	23.2530	2352
9	6.2281	0179	34	23.9858	1512
10	6.9225	2220	35	24.7210	7757
11	7.6177	0193	36	25.4588	7618
12	8.3137	1619	37	26.1992	7567
13	9.0106	3999	38	26.9423	4007
14	9.7085	4810	39	27.6881	3278
15	10.4075	1506	40	28.4367	1653
16	11.1076	1515	41	29.1881	5334
17	11.8089	2237	42	29.9425	0456
18	12.5115	1040	43	30.6998	3077
19	13.2154	5264	44	31.4601	9187
20	13.9208	2212	45	32.2236	4698
21	14.6276	9155	46	32.9902	5447
22	15.3361	3326	47	33.7600	7191
23	16.0462	1917	48	34.5331	5611
24	16.7580	2083	49	35.3095	6305
25	17.4716	0933	50	36.0893	4790

$$e = 80^c$$

θ	mean anomaly		θ	mean anomaly	
50	36.0893	4790	75	56.8248	5715
51	36.8725	6500	76	57.7088	4855
52	37.6592	6783	77	58.5973	5302
53	38.4495	0902	78	59.4903	9807
54	39.2433	4032	79	60.3880	1008
55	40.0408	1261	80	61.2902	1432
56	40.8419	7586	81	62.1970	3493
57	41.6468	7912	82	63.1084	9488
58	42.4555	7054	83	64.0246	1603
59	43.2680	9731	84	64.9454	1908
60	44.0845	0569	85	65.8709	2355
61	44.9048	4098	86	66.8011	4784
62	45.7291	4752	87	67.7361	0916
63	46.5574	6864	88	68.6758	2355
64	47.3898	4671	89	69.6203	0590
65	48.2263	2308	90	70.5695	6989
66	49.0669	3811	91	71.5236	2806
67	49.9117	3112	92	72.4824	9172
68	50.7607	4041	93	73.4461	7104
69	51.6140	0322	94	74.4146	7498
70	52.4715	5577	95	75.3880	1130
71	53.3334	3320	96	76.3661	8659
72	54.1996	6959	97	77.3492	0622
73	55.0702	9795	98	78.3370	7440
74	55.9453	5019	99	79.3297	9410
75	56.8248	5715	100	80.3273	6714

$$e = 80^c$$

θ	mean anomaly		θ	mean anomaly	
100	80.3273	6714	125	106.8248	5715
101	81.3297	9410	126	107.9453	5019
102	82.3370	7440	127	109.0702	9795
103	83.3492	0622	128	110.1996	6959
104	84.3661	8659	129	111.3334	3320
105	85.3880	1130	130	112.4715	5577
106	86.4146	7498	131	113.6140	0322
107	87.4461	7104	132	114.7607	4041
108	88.4824	9172	133	115.9117	3112
109	89.5236	2806	134	117.0669	3811
110	90.5695	6989	135	118.2263	2308
111	91.6203	0590	136	119.3898	4671
112	92.6758	2355	137	120.5574	6864
113	93.7361	0916	138	121.7291	4752
114	94.8011	4784	139	122.9048	4098
115	95.8709	2355	140	124.0845	0569
116	96.9454	1908	141	125.2680	9731
117	98.0246	1603	142	126.4555	7054
118	99.1084	9488	143	127.6468	7912
119	100.1970	3493	144	128.8419	7586
120	101.2902	1432	145	130.0408	1261
121	102.3880	1008	146	131.2433	4032
122	103.4903	9807	147	132.4495	0902
123	104.5973	5302	148	133.6592	6783
124	105.7088	4855	149	134.8725	6500
125	106.8248	5715	150	136.0893	4790

$$e = 80^c$$

θ	mean anomaly		θ	mean anomaly	
150	136.0893	4790	175	167.4716	0933
151	137.3095	6305	176	168.7580	2083
152	138.5331	5611	177	170.0462	1917
153	139.7600	7191	178	171.3361	3326
154	140.9902	5447	179	172.6276	9155
155	142.2236	4698	180	173.9208	2212
156	143.4601	9187	181	175.2154	5264
157	144.6998	3077	182	176.5115	1040
158	145.9425	0456	183	177.8089	2237
159	147.1881	5334	184	179.1076	1515
160	148.4367	1653	185	180.4075	1506
161	149.6881	3278	186	181.7085	4810
162	150.9423	4007	187	183.0106	3999
163	152.1992	7567	188	184.3137	1619
164	153.4588	7618	189	185.6177	0193
165	154.7210	7757	190	186.9225	2220
166	155.9858	1512	191	188.2281	0179
167	157.2530	2352	192	189.5343	6531
168	158.5226	3684	193	190.8412	3719
169	159.7945	8856	194	192.1486	4170
170	161.0688	1158	195	193.4565	0302
171	162.3452	3823	196	194.7647	4516
172	163.6238	0032	197	196.0732	9209
173	164.9044	2911	198	197.3820	6767
174	166.1870	5536	199	198.6909	9571
175	167.4716	0933	200	200.0000	0000

$$e = 81^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	17.8364	7670
1	0.7059	7177	26	18.5657	1378
2	1.4120	1608	27	19.2967	8515
3	2.1182	0547	28	20.0297	5719
4	2.8246	1243	29	20.7646	9575
5	3.5313	0940	30	21.5016	6626
6	4.2383	6874	31	22.2407	3361
7	4.9458	6275	32	22.9819	6217
8	5.6538	6358	33	23.7254	1580
9	6.3624	4328	34	24.4711	5779
10	7.0716	7376	35	25.2192	5088
11	7.7816	2676	36	25.9697	5723
12	8.4923	7385	37	26.7227	3838
13	9.2039	8639	38	27.4782	5530
14	9.9165	3555	39	28.2363	6830
15	10.6300	9223	40	28.9971	3707
16	11.3447	2713	41	29.7606	2063
17	12.0605	1064	42	30.5268	7733
18	12.7775	1290	43	31.2959	6486
19	13.4958	0373	44	32.0679	4019
20	14.2154	5264	45	32.8428	5957
21	14.9365	2879	46	33.6207	7854
22	15.6591	0102	47	34.4017	5190
23	16.3832	3777	48	35.1858	3369
24	17.1090	0711	49	35.9730	7719
25	17.8364	7670	50	36.7635	3488

$$e = 81^c$$

θ	mean anomaly		θ	mean anomaly	
50	36.7635	3488	75	57.7057	2489
51	37.5572	5847	76	58.5953	3871
52	38.3542	9886	77	59.4892	4686
53	39.1547	0612	78	60.3874	7554
54	39.9585	2950	79	61.2900	4984
55	40.7658	1740	80	62.1969	9381
56	41.5766	1737	81	63.1083	3040
57	42.3909	7610	82	64.0240	8149
58	43.2089	3939	83	64.9442	6787
59	44.0305	5214	84	65.8689	0924
60	44.8558	5839	85	66.7980	2418
61	45.6849	0123	86	67.7316	3018
62	46.5177	2283	87	68.6697	4363
63	47.3543	6446	88	69.6123	7980
64	48.1948	6641	89	70.5595	5284
65	49.0392	6805	90	71.5112	7578
66	49.8876	0775	91	72.4675	6054
67	50.7399	2295	92	73.4284	1790
68	51.5962	5008	93	74.3938	5752
69	52.4566	2459	94	75.3638	8793
70	53.3210	8093	95	76.3385	1652
71	54.1896	5254	96	77.3177	4955
72	55.0623	7185	97	78.3015	9215
73	55.9392	7027	98	79.2900	4830
74	56.8203	7817	99	80.2831	2085
75	57.7057	2489	100	81.2808	1151

$$e = 81^c$$

θ	mean anomaly		θ	mean anomaly	
100	81.2808	1151	125	107.7057	2489
101	82.2831	2085	126	108.8203	7817
102	83.2900	4830	127	109.9392	7027
103	84.3015	9215	128	111.0623	7185
104	85.3177	4955	129	112.1896	5254
105	86.3385	1652	130	113.3210	8093
106	87.3638	8793	131	114.4566	2459
107	88.3938	5752	132	115.5962	5008
108	89.4284	1790	133	116.7399	2295
109	90.4675	6054	134	117.8876	0775
110	91.5112	7578	135	119.0392	6805
111	92.5595	5284	136	120.1948	6641
112	93.6123	7980	137	121.3543	6446
113	94.6697	4363	138	122.5177	2283
114	95.7316	3018	139	123.6849	0123
115	96.7980	2418	140	124.8558	5839
116	97.8689	0924	141	126.0305	5214
117	98.9442	6787	142	127.2089	3939
118	100.0240	8149	143	128.3909	7610
119	101.1083	3040	144	129.5766	1737
120	102.1969	9381	145	130.7658	1740
121	103.2900	4984	146	131.9585	2950
122	104.3874	7554	147	133.1547	0612
123	105.4892	4686	148	134.3542	9886
124	106.5953	3871	149	135.5572	5847
125	107.7057	2489	150	136.7635	3488

$$e = 81^c$$

θ	mean anomaly		θ	mean anomaly	
150	136.7635	3488	175	167.8364	7670
151	137.9730	7719	176	169.1090	0711
152	139.1858	3369	177	170.3832	3777
153	140.4017	5190	178	171.6591	0102
154	141.6207	7854	179	172.9365	2879
155	142.8428	5957	180	174.2154	5264
156	144.0679	4019	181	175.4958	0373
157	145.2959	6486	182	176.7775	1290
158	146.5268	7733	183	178.0605	1064
159	147.7606	2063	184	179.3447	2713
160	148.9971	3707	185	180.6300	9223
161	150.2363	6830	186	181.9165	3555
162	151.4782	5530	187	183.2039	8639
163	152.7227	3838	188	184.4923	7385
164	153.9697	5723	189	185.7816	2676
165	155.2192	5088	190	187.0716	7376
166	156.4711	5779	191	188.3624	4328
167	157.7254	1580	192	189.6538	6358
168	158.9819	6217	193	190.9458	6275
169	160.2407	3361	194	192.2383	6874
170	161.5016	6626	195	193.5313	0940
171	162.7646	9575	196	194.8246	1243
172	164.0297	5719	197	196.1182	0547
173	165.2967	8515	198	197.4120	1608
174	166.5657	1378	199	198.7059	7177
175	167.8364	7670	200	200.0000	0000

$$e = 82^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	18.2031	1155
1	0.7210	2037	26	18.9462	0650
2	1.4421	0957	27	19.6910	4186
3	2.1633	3642	28	20.4376	8059
4	2.8847	6971	29	21.1861	8522
5	3.6064	7816	30	21.9366	1778
6	4.3285	3044	31	22.6890	3987
7	5.0509	9514	32	23.4435	1256
8	5.7739	4072	33	24.2000	9644
9	6.4974	3554	34	24.9588	5156
10	7.2215	4784	35	25.7198	3745
11	7.9463	4568	36	26.4831	1308
12	8.6718	9697	37	27.2487	3686
13	9.3982	6941	38	28.0167	6662
14	10.1255	3053	39	28.7872	5959
15	10.8537	4761	40	29.5602	7240
16	11.5829	8772	41	30.3358	6106
17	12.3133	1766	42	31.1140	8094
18	13.0448	0397	43	31.8949	8675
19	13.7775	1290	44	32.6786	3256
20	14.5115	1040	45	33.4650	7175
21	15.2468	6210	46	34.2543	5700
22	15.9836	3331	47	35.0465	4032
23	16.7218	8896	48	35.8416	7298
24	17.4616	9364	49	36.6398	0552
25	18.2031	1155	50	37.4409	8776

$$e = 82^c$$

θ	mean anomaly		θ	mean anomaly	
50	37.4409	8776	75	58.5908	5973
51	38.2452	6874	76	59.4861	2320
52	39.0526	9677	77	60.3854	6122
53	39.8633	1934	78	61.2888	9864
54	40.6771	8320	79	62.1964	5926
55	41.4943	3426	80	63.1081	6591
56	42.3148	1764	81	64.0240	4037
57	43.1386	7764	82	64.9441	0339
58	43.9659	5771	83	65.8683	7469
59	44.7967	0047	84	66.7968	7297
60	45.6309	4768	85	67.7296	1587
61	46.4687	4024	86	68.6666	1997
62	47.3101	1817	87	69.6079	0082
63	48.1551	2061	88	70.5534	7292
64	49.0037	8580	89	71.5033	4968
65	49.8561	5108	90	72.4575	4349
66	50.7122	5289	91	73.4160	6562
67	51.5721	2671	92	74.3789	2634
68	52.4358	0713	93	75.3461	3479
69	53.3033	2778	94	76.3176	9906
70	54.1747	2135	95	77.2936	2618
71	55.0500	1958	96	78.2739	2208
72	55.9292	5322	97	79.2585	9163
73	56.8124	5208	98	80.2476	3860
74	57.6996	4497	99	81.2410	6570
75	58.5908	5973	100	82.2388	7456

$$e = 82^c$$

θ	mean anomaly		θ	mean anomaly	
100	82.2388	7456	125	108.5908	5973
101	83.2410	6570	126	109.6996	4497
102	84.2476	3860	127	110.8124	5208
103	85.2585	9163	128	111.9292	5322
104	86.2739	2208	129	113.0500	1958
105	87.2936	2618	130	114.1747	2135
106	88.3176	9906	131	115.3033	2778
107	89.3461	3479	132	116.4358	0713
108	90.3789	2634	133	117.5721	2671
109	91.4160	6562	134	118.7122	5289
110	92.4575	4349	135	119.8561	5108
111	93.5033	4968	136	121.0037	8580
112	94.5534	7292	137	122.1551	2061
113	95.6079	0082	138	123.3101	1817
114	96.6666	1997	139	124.4687	4024
115	97.7296	1587	140	125.6309	4768
116	98.7968	7297	141	126.7967	0047
117	99.8683	7469	142	127.9659	5771
118	100.9441	0339	143	129.1386	7764
119	102.0240	4037	144	130.3148	1764
120	103.1081	6591	145	131.4943	3426
121	104.1964	5926	146	132.6771	8320
122	105.2888	9864	147	133.8633	1934
123	106.3854	6122	148	135.0526	9677
124	107.4861	2320	149	136.2452	6874
125	108.5908	5973	150	137.4409	8776

$$e = 82^c$$

θ	mean anomaly		θ	mean anomaly	
150	137.4409	8776	175	168.2031	1155
151	138.6398	0552	176	169.4616	9364
152	139.8416	7298	177	170.7218	8896
153	141.0465	4032	178	171.9836	3331
154	142.2543	5700	179	173.2468	6210
155	143.4650	7175	180	174.5115	1040
156	144.6786	3256	181	175.7775	1290
157	145.8949	8675	182	177.0448	0397
158	147.1140	8094	183	178.3133	1766
159	148.3358	6106	184	179.5829	8772
160	149.5602	7240	185	180.8537	4761
161	150.7872	5959	186	182.1255	3053
162	152.0167	6662	187	183.3982	6941
163	153.2487	3686	188	184.6718	9697
164	154.4831	1308	189	185.9463	4568
165	155.7198	3745	190	187.2215	4784
166	156.9588	5156	191	188.4974	3554
167	158.2000	9644	192	189.7739	4072
168	159.4435	1256	193	191.0509	9514
169	160.6890	3987	194	192.3285	3044
170	161.9366	1778	195	193.6064	7816
171	163.1861	8522	196	194.8847	6971
172	164.4376	8059	197	196.1633	3642
173	165.6910	4186	198	197.4421	0957
174	166.9462	0650	199	198.7210	2037
175	168.2031	1155	200	200.0000	0000

$$e = 83^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	18.5714	2344
1	0.7361	3780	26	19.3284	3963
2	1.4723	4071	27	20.0871	0193
3	2.2086	7380	28	20.8474	6989
4	2.9452	0215	29	21.6096	0262
5	3.6819	9075	30	22.3735	5883
6	4.4191	0455	31	23.1393	9674
7	5.1566	0841	32	23.9071	7414
8	5.8945	6710	33	24.6769	4833
9	6.6330	4528	34	25.4487	7610
10	7.3721	0747	35	26.2227	1376
11	8.1118	1804	36	26.9988	1708
12	8.8522	4124	37	27.7771	4131
13	9.5934	4110	38	28.5577	4115
14	10.3354	8147	39	29.3406	7071
15	11.0784	2601	40	30.1259	8358
16	11.8223	3814	41	30.9137	3271
17	12.5672	8105	42	31.7039	7047
18	13.3133	1766	43	32.4967	4863
19	14.0605	1064	44	33.2921	1831
20	14.8089	2237	45	34.0901	2999
21	15.5586	1491	46	34.8908	3353
22	16.3096	5004	47	35.6942	7808
23	17.0620	8918	48	36.5005	1215
24	17.8159	9340	49	37.3095	8355
25	18.5714	2344	50	38.1215	3939

$$e = 83^c$$

θ	mean anomaly		θ	mean anomaly	
50	38.1215	3939	75	59.4800	4328
51	38.9364	2605	76	60.3809	8225
52	39.7542	8922	77	61.2857	7497
53	40.5751	7384	78	62.1944	4495
54	41.3991	2410	79	63.1070	1471
55	42.2261	8344	80	64.0235	0583
56	43.0563	9452	81	64.9439	3890
57	43.8897	9925	82	65.8683	3357
58	44.7264	3872	83	66.7967	0849
59	45.5663	5324	84	67.7290	8133
60	46.4095	8232	85	68.6654	6877
61	47.2561	6462	86	69.6058	8651
62	48.1061	3802	87	70.5503	4926
63	48.9595	3951	88	71.4988	7071
64	49.8164	0528	89	72.4514	6357
65	50.6767	7064	90	73.4081	3953
66	51.5406	7004	91	74.3689	0928
67	52.4081	3706	92	75.3337	8251
68	53.2792	0441	93	76.3027	6788
69	54.1539	0390	94	77.2758	7304
70	55.0322	6643	95	78.2531	0462
71	55.9143	2203	96	79.2344	6826
72	56.8000	9980	97	80.2199	6854
73	57.6896	2791	98	81.2096	0903
74	58.5829	3363	99	82.2033	9231
75	59.4800	4328	100	83.2013	1990

$$e = 83^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
100	83.2013	1990	125	109.4800	4328
101	84.2033	9231	126	110.5829	3363
102	85.2096	0903	127	111.6896	2791
103	86.2199	6854	128	112.8000	9980
104	87.2344	6826	129	113.9143	2203
105	88.2531	0462	130	115.0322	6643
106	89.2758	7304	131	116.1539	0390
107	90.3027	6788	132	117.2792	0441
108	91.3337	8251	133	118.4081	3706
109	92.3689	0928	134	119.5406	7004
110	93.4081	3953	135	120.6767	7064
111	94.4514	6357	136	121.8164	0528
112	95.4988	7071	137	122.9595	3951
113	96.5503	4926	138	124.1061	3802
114	97.6058	8651	139	125.2561	6462
115	98.6654	6877	140	126.4095	8232
116	99.7290	8133	141	127.5663	5324
117	100.7967	0849	142	128.7264	3872
118	101.8683	3357	143	129.8897	9925
119	102.9439	3890	144	131.0563	9452
120	104.0235	0583	145	132.2261	8344
121	105.1070	1471	146	133.3991	2410
122	106.1944	4495	147	134.5751	7384
123	107.2857	7497	148	135.7542	8922
124	108.3809	8225	149	136.9364	2605
125	109.4800	4328	150	138.1215	3939

$$e = 83^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
150	138.1215	3939	175	168.5714	2344
151	139.3095	8355	176	169.8159	9340
152	140.5005	1215	177	171.0620	8918
153	141.6942	7808	178	172.3096	5004
154	142.8908	3353	179	173.5586	1491
155	144.0901	2999	180	174.8089	2237
156	145.2921	1831	181	176.0605	1064
157	146.4967	4863	182	177.3133	1766
158	147.7039	7047	183	178.5672	8105
159	148.9137	3271	184	179.8223	3814
160	150.1259	8358	185	181.0784	2601
161	151.3406	7071	186	182.3354	8147
162	152.5577	4115	187	183.5934	4110
163	153.7771	4131	188	184.8522	4124
164	154.9988	1708	189	186.1118	1804
165	156.2227	1376	190	187.3721	0747
166	157.4487	7610	191	188.6330	4528
167	158.6769	4833	192	189.8945	6710
168	159.9071	7414	193	191.1566	0841
169	161.1393	9674	194	192.4191	0455
170	162.3735	5883	195	193.6819	9075
171	163.6096	0262	196	194.9452	0215
172	164.8474	6989	197	196.2086	7380
173	166.0871	0193	198	197.4723	4071
174	167.3284	3963	199	198.7361	3780
175	168.5714	2344	200	200.0000	0000

$$e = 84^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	18.9413	2148
1	0.7513	2034	26	19.7123	1888
2	1.5027	0204	27	20.4848	6766
3	2.2542	0644	28	21.2590	2396
4	3.0058	9485	29	22.0348	4350
5	3.7578	2854	30	22.8123	8158
6	4.5100	6872	31	23.5916	9310
7	5.2626	7652	32	24.3728	3250
8	6.0157	1297	33	25.1558	5380
9	6.7692	3902	34	25.9408	1052
10	7.5233	1548	35	26.7277	5573
11	8.2780	0302	36	27.5167	4199
12	9.0333	6218	37	28.3078	2137
13	9.7894	5330	38	29.1010	4541
14	10.5463	3658	39	29.8964	6514
15	11.3040	7200	40	30.6941	3102
16	12.0627	1934	41	31.4940	9299
17	12.8223	3814	42	32.2964	0040
18	13.5829	8772	43	33.1011	0203
19	14.3447	2713	44	33.9082	4607
20	15.1076	1515	45	34.7178	8009
21	15.8717	1030	46	35.5300	5107
22	16.6370	7078	47	36.3448	0536
23	17.4037	5448	48	37.1621	8865
24	18.1718	1897	49	37.9822	4602
25	18.9413	2148	50	38.8050	2185

$$e = 84^c$$

θ	mean anomaly		θ	mean anomaly	
50	38.8050	2185	75	60.3730	5615
51	39.6305	5987	76	61.2796	9506
52	40.4589	0313	77	62.1899	6597
53	41.2900	9399	78	63.1038	9105
54	42.1241	7408	79	64.0214	9151
55	42.9611	8436	80	64.9427	8770
56	43.8011	6504	81	65.8677	9903
57	44.6441	5560	82	66.7965	4400
58	45.4901	9478	83	67.7290	4020
59	46.3393	2057	84	68.6653	0428
60	47.1915	7019	85	69.6053	5197
61	48.0469	8009	86	70.5491	9806
62	48.9055	8596	87	71.4968	5640
63	49.7674	2269	88	72.4483	3990
64	50.6325	2435	89	73.4036	6055
65	51.5009	2424	90	74.3628	2936
66	52.3726	5482	91	75.3258	5641
67	53.2477	4774	92	76.2927	5082
68	54.1262	3383	93	77.2635	2076
69	55.0081	4306	94	78.2381	7344
70	55.8935	0458	95	79.2167	1511
71	56.7823	4666	96	80.1991	5108
72	57.6746	9673	97	81.1854	8566
73	58.5705	8136	98	82.1757	2224
74	59.4700	2623	99	83.1698	6323
75	60.3730	5615	100	84.1679	1006

$$e = 84^c$$

θ	mean anomaly		θ	mean anomaly	
100	84.1679	1006	125	110.3730	5615
101	85.1698	6323	126	111.4700	2623
102	86.1757	2224	127	112.5705	8136
103	87.1854	8566	128	113.6746	9673
104	88.1991	5108	129	114.7823	4666
105	89.2167	1511	130	115.8935	0458
106	90.2381	7344	131	117.0081	4306
107	91.2635	2076	132	118.1262	3383
108	92.2927	5082	133	119.2477	4774
109	93.3258	5641	134	120.3726	5482
110	94.3628	2936	135	121.5009	2424
111	95.4036	6055	136	122.6325	2435
112	96.4483	3990	137	123.7674	2269
113	97.4968	5640	138	124.9055	8596
114	98.5491	9806	139	126.0469	8009
115	99.6053	5197	140	127.1915	7019
116	100.6653	0428	141	128.3393	2057
117	101.7290	4020	142	129.4901	9478
118	102.7965	4400	143	130.6441	5560
119	103.8677	9903	144	131.8011	6504
120	104.9427	8770	145	132.9611	8436
121	106.0214	9151	146	134.1241	7408
122	107.1038	9105	147	135.2900	9399
123	108.1899	6597	148	136.4589	0313
124	109.2796	9506	149	137.6305	5987
125	110.3730	5615	150	138.8050	2185

$$e = 84^c$$

θ	mean anomaly		θ	mean anomaly	
150	138.8050	2185	175	168.9413	2148
151	139.9822	4602	176	170.1718	1897
152	141.1621	8865	177	171.4037	5448
153	142.3448	0536	178	172.6370	7078
154	143.5300	5107	179	173.8717	1030
155	144.7178	8009	180	175.1076	1515
156	145.9082	4607	181	176.3447	2713
157	147.1011	0203	182	177.5829	8772
158	148.2964	0040	183	178.8223	3814
159	149.4940	9299	184	180.0627	1934
160	150.6941	3102	185	181.3040	7200
161	151.8964	6514	186	182.5463	3658
162	153.1010	4541	187	183.7894	5330
163	154.3078	2137	188	185.0333	6218
164	155.5167	4199	189	186.2780	0302
165	156.7277	5573	190	187.5233	1548
166	157.9408	1052	191	188.7692	3902
167	159.1558	5380	192	190.0157	1297
168	160.3728	3250	193	191.2626	7652
169	161.5916	9310	194	192.5100	6872
170	162.8123	8158	195	193.7578	2854
171	164.0348	4350	196	195.0058	9485
172	165.2590	2396	197	196.2542	0644
173	166.4848	6766	198	197.5027	0204
174	167.7123	1888	199	198.7513	2034
175	168.9413	2148	200	200.0000	0000

$$e = 85^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	19.3127	1441
1	0.7665	6424	26	20.0977	4951
2	1.5331	8607	27	20.8842	4091
3	2.2999	2308	28	21.6722	4127
4	3.0668	3283	29	22.4618	0292
5	3.8339	7282	30	23.2529	7777
6	4.6014	0051	31	24.0458	1734
7	5.3691	7328	32	24.8403	7276
8	6.1373	4844	33	25.6366	9470
9	6.9059	8318	34	26.4348	3344
10	7.6751	3458	35	27.2348	3876
11	8.4448	5961	36	28.0367	6002
12	9.2152	1508	37	28.8406	4609
13	9.9862	5766	38	29.6465	4536
14	10.7580	4383	39	30.4545	0572
15	11.5306	2991	40	31.2645	7455
16	12.3040	7200	41	32.0767	9872
17	13.0784	2601	42	32.8912	2455
18	13.8537	4761	43	33.7078	9784
19	14.6300	9223	44	34.5268	6382
20	15.4075	1506	45	35.3481	6715
21	16.1860	7102	46	36.1718	5192
22	16.9658	1475	47	36.9979	6164
23	17.7468	0058	48	37.8265	3922
24	18.5290	8256	49	38.6576	2695
25	19.3127	1441	50	39.4912	6650

$$e = 85^c$$

θ	mean anomaly		θ	mean anomaly	
50	39.4912	6650	75	61.2696	7800
51	40.3274	9892	76	62.1820	3988
52	41.1663	6463	77	63.0978	1113
53	42.0079	0337	78	64.0170	1254
54	42.8521	5425	79	64.9396	6404
55	43.6991	5569	80	65.8657	8472
56	44.5489	4545	81	66.7953	9280
57	45.4015	6058	82	67.7285	0566
58	46.2570	3745	83	68.6651	3980
59	47.1154	1173	84	69.6053	1085
60	47.9767	1834	85	70.5490	3357
61	48.8409	9153	86	71.4963	2185
62	49.7082	6476	87	72.4471	8870
63	50.5785	7080	88	73.4016	4624
64	51.4519	4164	89	74.3597	0570
65	52.3284	0853	90	75.3213	7744
66	53.2080	0194	91	76.2866	7090
67	54.0907	5158	92	77.2555	9466
68	54.9766	8639	93	78.2281	5638
69	55.8658	3451	94	79.2043	6284
70	56.7582	2329	95	80.1842	1989
71	57.6538	7927	96	81.1677	3252
72	58.5528	2821	97	82.1549	0479
73	59.4550	9504	98	83.1457	3986
74	60.3607	0388	99	84.1402	4000
75	61.2696	7800	100	85.1384	0656

$$e = 85^c$$

θ	mean anomaly		θ	mean anomaly	
100	85.1384	0656	125	111.2696	7800
101	86.1402	4000	126	112.3607	0388
102	87.1457	3986	127	113.4550	9504
103	88.1549	0479	128	114.5528	2821
104	89.1677	3252	129	115.6538	7927
105	90.1842	1989	130	116.7582	2329
106	91.2043	6284	131	117.8658	3451
107	92.2281	5638	132	118.9766	8639
108	93.2555	9466	133	120.0907	5158
109	94.2866	7090	134	121.2080	0194
110	95.3213	7744	135	122.3284	0853
111	96.3597	0570	136	123.4519	4164
112	97.4016	4624	137	124.5785	7080
113	98.4471	8870	138	125.7082	6476
114	99.4963	2185	139	126.8409	9153
115	100.5490	3357	140	127.9767	1834
116	101.6053	1085	141	129.1154	1173
117	102.6651	3980	142	130.2570	3745
118	103.7285	0566	143	131.4015	6058
119	104.7953	9280	144	132.5489	4545
120	105.8657	8472	145	133.6991	5569
121	106.9396	6404	146	134.8521	5425
122	108.0170	1254	147	136.0079	0337
123	109.0978	1113	148	137.1663	6463
124	110.1820	3988	149	138.3274	9892
125	111.2696	7800	150	139.4912	6650

$$e = 85^c$$

θ	mean anomaly		θ	mean anomaly	
150	139.4912	6650	175	169.3127	1441
151	140.6576	2695	176	170.5290	8256
152	141.8265	3922	177	171.7468	0058
153	142.9979	6164	178	172.9658	1475
154	144.1718	5192	179	174.1860	7102
155	145.3481	6715	180	175.4075	1506
156	146.5268	6382	181	176.6300	9223
157	147.7078	9784	182	177.8537	4761
158	148.8912	2455	183	179.0784	2601
159	150.0767	9872	184	180.3040	7200
160	151.2645	7455	185	181.5306	2991
161	152.4545	0572	186	182.7580	4383
162	153.6465	4536	187	183.9862	5766
163	154.8406	4609	188	185.2152	1508
164	156.0367	6002	189	186.4448	5961
165	157.2348	3876	190	187.6751	3458
166	158.4348	3344	191	188.9059	8318
167	159.6366	9470	192	190.1373	4844
168	160.8403	7276	193	191.3691	7328
169	162.0458	1734	194	192.6014	0051
170	163.2529	7777	195	193.8339	7282
171	164.4618	0292	196	195.0668	3283
172	165.6722	4127	197	196.2999	2308
173	166.8842	4091	198	197.5331	8607
174	168.0977	4951	199	198.7665	6424
175	169.3127	1441	200	200.0000	0000

$$e = 86^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	19.6855	1059
1	0.7818	6573	26	20.4846	3644
2	1.5637	8528	27	21.2851	2312
3	2.3458	1246	28	22.0870	1986
4	3.1280	0105	29	22.8903	7554
5	3.9104	0479	30	23.6952	3868
6	4.6930	7738	31	24.5016	5743
7	5.4760	7243	32	25.3096	7954
8	6.2594	4348	33	26.1193	5239
9	7.0432	4399	34	26.9307	2294
10	7.8275	2731	35	27.7438	3772
11	8.6123	4664	36	28.5587	4286
12	9.3977	5510	37	29.3754	8401
13	10.1838	0562	38	30.1941	0640
14	10.9705	5099	39	31.0146	5477
15	11.7580	4383	40	31.8371	7341
16	12.5463	3658	41	32.6617	0611
17	13.3354	8147	42	33.4882	9615
18	14.1255	3053	43	34.3169	8633
19	14.9165	3555	44	35.1478	1892
20	15.7085	4810	45	35.9808	3565
21	16.5016	1951	46	36.8160	7772
22	17.2958	0082	47	37.6535	8578
23	18.0911	4283	48	38.4933	9994
24	18.8876	9602	49	39.3355	5970
25	19.6855	1059	50	40.1801	0403

$$e = 86^c$$

θ	mean anomaly		θ	mean anomaly	
50	40.1801	0403	75	62.1696	8760
51	41.0270	7126	76	63.0877	9407
52	41.8764	9916	77	64.0090	8644
53	42.7284	2489	78	64.9335	8412
54	43.5828	8498	79	65.8613	0574
55	44.4399	1533	80	66.7922	6914
56	45.2995	5122	81	67.7264	9135
57	46.1618	2730	82	68.6639	8860
58	47.0267	7752	83	69.6047	7630
59	47.8944	3523	84	70.5488	6908
60	48.7648	3307	85	71.4962	8073
61	49.6380	0301	86	72.4470	2422
62	50.5139	7636	87	73.4011	1170
63	51.3927	8372	88	74.3585	5450
64	52.2744	5498	89	75.3193	6312
65	53.1590	1934	90	76.2835	4724
66	54.0465	0529	91	77.2511	1569
67	54.9369	4059	92	78.2220	7647
68	55.8303	5226	93	79.1964	3674
69	56.7267	6662	94	80.1742	0284
70	57.6262	0921	95	81.1553	8024
71	58.5287	0484	96	82.1399	7360
72	59.4342	7759	97	83.1279	8672
73	60.3429	5073	98	84.1194	2254
74	61.2547	4682	99	85.1142	8319
75	62.1696	8760	100	86.1125	6993

$$e = 86^c$$

θ	mean anomaly		θ	mean anomaly	
100	86.1125	6993	125	112.1696	8760
101	87.1142	8319	126	113.2547	4682
102	88.1194	2254	127	114.3429	5073
103	89.1279	8672	128	115.4342	7759
104	90.1399	7360	129	116.5287	0484
105	91.1553	8024	130	117.6262	0921
106	92.1742	0284	131	118.7267	6662
107	93.1964	3674	132	119.8303	5226
108	94.2220	7647	133	120.9369	4059
109	95.2511	1569	134	122.0465	0529
110	96.2835	4724	135	123.1590	1934
111	97.3193	6312	136	124.2744	5498
112	98.3585	5450	137	125.3927	8372
113	99.4011	1170	138	126.5139	7636
114	100.4470	2422	139	127.6380	0301
115	101.4962	8073	140	128.7648	3307
116	102.5488	6908	141	129.8944	3523
117	103.6047	7630	142	131.0267	7752
118	104.6639	8860	143	132.1618	2730
119	105.7264	9135	144	133.2995	5122
120	106.7922	6914	145	134.4399	1533
121	107.8613	0574	146	135.5828	8498
122	108.9335	8412	147	136.7284	2489
123	110.0090	8644	148	137.8764	9916
124	111.0877	9407	149	139.0270	7126
125	112.1696	8760	150	140.1801	0403

$$e = 86^c$$

θ	mean anomaly		θ	mean anomaly	
150	140.1801	0403	175	169.6855	1059
151	141.3355	5970	176	170.8876	9602
152	142.4933	9994	177	172.0911	4283
153	143.6535	8578	178	173.2958	0082
154	144.8160	7772	179	174.5016	1951
155	145.9808	3565	180	175.7085	4810
156	147.1478	1892	181	176.9165	3555
157	148.3169	8633	182	178.1255	3053
158	149.4882	9615	183	179.3354	8147
159	150.6617	0611	184	180.5463	3658
160	151.8371	7341	185	181.7580	4383
161	153.0146	5477	186	182.9705	5099
162	154.1941	0640	187	184.1838	0562
163	155.3754	8401	188	185.3977	5510
164	156.5587	4286	189	186.6123	4664
165	157.7438	3772	190	187.8275	2731
166	158.9307	2294	191	189.0432	4399
167	160.1193	5239	192	190.2594	4348
168	161.3096	7954	193	191.4760	7243
169	162.5016	5743	194	192.6930	7738
170	163.6952	3868	195	193.9104	0479
171	164.8903	7554	196	195.1280	0105
172	166.0870	1986	197	196.3458	1246
173	167.2851	2312	198	197.5637	8528
174	168.4846	3644	199	198.7818	6573
175	169.6855	1059	200	200.0000	0000

$$e = 87^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	20.0596	1805
1	0.7972	2104	26	20.8728	8420
2	1.5944	9212	27	21.6874	1540
3	2.3918	6325	28	22.5032	5739
4	3.1893	8443	29	23.3204	5563
5	3.9871	0561	30	24.1390	5520
6	4.7850	7672	31	24.9591	0088
7	5.5833	4758	32	25.7806	3706
8	6.3819	6799	33	26.6037	0777
9	7.1809	8761	34	27.4283	5668
10	7.9804	5606	35	28.2546	2703
11	8.7804	2279	36	29.0825	6171
12	9.5809	3718	37	29.9122	0316
13	10.3820	4843	38	30.7435	9342
14	11.1838	0562	39	31.5767	7409
15	11.9862	5766	40	32.4117	8633
16	12.7894	5330	41	33.2486	7085
17	13.5934	4110	42	34.0874	6789
18	14.3982	6941	43	34.9282	1723
19	15.2039	8639	44	35.7709	5816
20	16.0106	3999	45	36.6157	2949
21	16.8182	7790	46	37.4625	6951
22	17.6269	4759	47	38.3115	1601
23	18.4366	9626	48	39.1626	0627
24	19.2475	7086	49	40.0158	7702
25	20.0596	1805	50	40.8713	6446

$$e = 87^c$$

θ	mean anomaly		θ	mean anomaly	
50	40.8713	6446	75	63.0728	6289
51	41.7291	0427	76	63.9967	3416
52	42.5891	3152	77	64.9235	6706
53	43.4514	8077	78	65.8533	7964
54	44.3161	8597	79	66.7861	8922
55	45.1832	8051	80	67.7220	1237
56	46.0527	9718	81	68.6608	6493
57	46.9247	6817	82	69.6027	6199
58	47.7992	2507	83	70.5477	1788
59	48.6761	9886	84	71.4957	4619
60	49.5557	1990	85	72.4468	5973
61	50.4378	1790	86	73.4010	7057
62	51.3225	2197	87	74.3583	9001
63	52.2098	6054	88	75.3188	2858
64	53.0998	6142	89	76.2823	9604
65	53.9925	5175	90	77.2491	0137
66	54.8879	5799	91	78.2189	5280
67	55.7861	0597	92	79.1919	5776
68	56.6870	2081	93	80.1681	2292
69	57.5907	2696	94	81.1474	5415
70	58.4972	4817	95	82.1299	5655
71	59.4066	0752	96	83.1156	3444
72	60.3188	2736	97	84.1044	9136
73	61.2339	2936	98	85.0965	3005
74	62.1519	3446	99	86.0917	5247
75	63.0728	6289	100	87.0901	5982

$$e = 87^c$$

θ	mean anomaly		θ	mean anomaly	
100	87.0901	5982	125	113.0728	6289
101	88.0917	5247	126	114.1519	3446
102	89.0965	3005	127	115.2339	2936
103	90.1044	9136	128	116.3188	2736
104	91.1156	3444	129	117.4066	0752
105	92.1299	5655	130	118.4972	4817
106	93.1474	5415	131	119.5907	2696
107	94.1681	2292	132	120.6870	2081
108	95.1919	5776	133	121.7861	0597
109	96.2189	5280	134	122.8879	5799
110	97.2491	0137	135	123.9925	5175
111	98.2823	9604	136	125.0998	6142
112	99.3188	2858	137	126.2098	6054
113	100.3583	9001	138	127.3225	2197
114	101.4010	7057	139	128.4378	1790
115	102.4468	5973	140	129.5557	1990
116	103.4957	4619	141	130.6761	9886
117	104.5477	1788	142	131.7992	2507
118	105.6027	6199	143	132.9247	6817
119	106.6608	6493	144	134.0527	9718
120	107.7220	1237	145	135.1832	8051
121	108.7861	8922	146	136.3161	8597
122	109.8533	7964	147	137.4514	8077
123	110.9235	6706	148	138.5891	3152
124	111.9967	3416	149	139.7291	0427
125	113.0728	6289	150	140.8713	6446

$$e = 87^c$$

θ	mean anomaly		θ	mean anomaly	
150	140.8713	6446	175	170.0596	1805
151	142.0158	7702	176	171.2475	7086
152	143.1626	0627	177	172.4366	9626
153	144.3115	1601	178	173.6269	4759
154	145.4625	6951	179	174.8182	7790
155	146.6157	2949	180	176.0106	3999
156	147.7709	5816	181	177.2039	8639
157	148.9282	1723	182	178.3982	6941
158	150.0874	6789	183	179.5934	4110
159	151.2486	7085	184	180.7894	5330
160	152.4117	8633	185	181.9862	5766
161	153.5767	7409	186	183.1838	0562
162	154.7435	9342	187	184.3820	4843
163	155.9122	0316	188	185.5809	3718
164	157.0825	6171	189	186.7804	2279
165	158.2546	2703	190	187.9804	5606
166	159.4283	5668	191	189.1809	8761
167	160.6037	0777	192	190.3819	6799
168	161.7806	3706	193	191.5833	4758
169	162.9591	0088	194	192.7850	7672
170	164.1390	5520	195	193.9871	0561
171	165.3204	5563	196	195.1893	8443
172	166.5032	5739	197	196.3918	6325
173	167.6874	1540	198	197.5944	9212
174	168.8728	8420	199	198.7972	2104
175	170.0596	1805	200	200.0000	0000

$$e = 88^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	20.4349	4447
1	0.8126	2639	26	21.2623	9700
2	1.6252	9901	27	22.0910	1847
3	2.4380	6409	28	22.9208	5116
4	3.2509	6781	29	23.7519	3705
5	4.0640	5635	30	24.5843	1783
6	4.8773	7581	31	25.4180	3484
7	5.6909	7227	32	26.2531	2912
8	6.5048	9171	33	27.0896	4135
9	7.3191	8005	34	27.9276	1187
10	8.1338	8310	35	28.7670	8067
11	8.9490	4659	36	29.6080	8734
12	9.7647	1612	37	30.4506	7113
13	10.5809	3718	38	31.2948	7086
14	11.3977	5510	39	32.1407	2498
15	12.2152	1508	40	32.9882	7153
16	13.0333	6218	41	33.8375	4811
17	13.8522	4124	42	34.6885	9193
18	14.6718	9697	43	35.5414	3972
19	15.4923	7385	44	36.3961	2780
20	16.3137	1619	45	37.2526	9203
21	17.1359	6807	46	38.1111	6778
22	17.9591	7334	47	38.9715	8999
23	18.7833	7562	48	39.8339	9309
24	19.6086	1829	49	40.6984	1103
25	20.4349	4447	50	41.5648	7726

$$e = 88^c$$

θ	mean anomaly		θ	mean anomaly	
50	41.5648	7726	75	63.9789	8102
51	42.4334	2473	76	64.9086	3588
52	43.3040	8587	77	65.8410	2737
53	44.1768	9260	78	66.7761	7217
54	45.0518	7631	79	67.7140	8627
55	45.9290	6782	80	68.6547	8501
56	46.8084	9746	81	69.5982	8302
57	47.6901	9496	82	70.5445	9422
58	48.5741	8951	83	71.4937	3187
59	49.4605	0974	84	72.4457	0853
60	50.3491	8370	85	73.4005	3603
61	51.2402	3885	86	74.3582	2553
62	52.1337	0208	87	75.3187	8746
63	53.0295	9967	88	76.2822	3155
64	53.9279	5731	89	77.2485	6683
65	54.8288	0007	90	78.2178	0160
66	55.7321	5243	91	79.1899	4345
67	56.6380	3822	92	80.1649	9926
68	57.5464	8067	93	81.1429	7517
69	58.4575	0237	94	82.1238	7663
70	59.3711	2527	95	83.1077	0834
71	60.2873	7069	96	84.0944	7430
72	61.2062	5929	97	85.0841	7777
73	62.1278	1109	98	86.0768	2129
74	63.0520	4543	99	87.0724	0668
75	63.9789	8102	100	88.0709	3502

$$e = 88^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
100	88.0709	3502	125	113.9789	8102
101	89.0724	0668	126	115.0520	4543
102	90.0768	2129	127	116.1278	1109
103	91.0841	7777	128	117.2062	5929
104	92.0944	7430	129	118.2873	7069
105	93.1077	0834	130	119.3711	2527
106	94.1238	7663	131	120.4575	0237
107	95.1429	7517	132	121.5464	8067
108	96.1649	9926	133	122.6380	3822
109	97.1899	4345	134	123.7321	5243
110	98.2178	0160	135	124.8288	0007
111	99.2485	6683	136	125.9279	5731
112	100.2822	3155	137	127.0295	9967
113	101.3187	8746	138	128.1337	0208
114	102.3582	2553	139	129.2402	3885
115	103.4005	3603	140	130.3491	8370
116	104.4457	0853	141	131.4605	0974
117	105.4937	3187	142	132.5741	8951
118	106.5445	9422	143	133.6901	9496
119	107.5982	8302	144	134.8084	9746
120	108.6547	8501	145	135.9290	6782
121	109.7140	8627	146	137.0518	7631
122	110.7761	7217	147	138.1768	9260
123	111.8410	2737	148	139.3040	8587
124	112.9086	3588	149	140.4334	2473
125	113.9789	8102	150	141.5648	7726

$$e = 88^c$$

θ	mean anomaly		θ	mean anomaly	
150	141.5648	7726	175	170.4349	4447
151	142.6984	1103	176	171.6086	1829
152	143.8339	9309	177	172.7833	7562
153	144.9715	8999	178	173.9591	7334
154	146.1111	6778	179	175.1359	6807
155	147.2526	9203	180	176.3137	1619
156	148.3961	2780	181	177.4923	7385
157	149.5414	3972	182	178.6718	9697
158	150.6885	9193	183	179.8522	4124
159	151.8375	4811	184	181.0333	6218
160	152.9882	7153	185	182.2152	1508
161	154.1407	2498	186	183.3977	5510
162	155.2948	7086	187	184.5809	3718
163	156.4506	7113	188	185.7647	1612
164	157.6080	8734	189	186.9490	4659
165	158.7670	8067	190	188.1338	8310
166	159.9276	1187	191	189.3191	8005
167	161.0896	4135	192	190.5048	9171
168	162.2531	2912	193	191.6909	7227
169	163.4180	3484	194	192.8773	7581
170	164.5843	1783	195	194.0640	5635
171	165.7519	3705	196	195.2509	6781
172	166.9208	5116	197	196.4380	6409
173	168.0910	1847	198	197.6252	9901
174	169.2623	9700	199	198.8126	2639
175	170.4349	4447	200	200.0000	0000

$$e = 89^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	20.8113	9725
1	0.8280	7797	26	21.6530	7874
2	1.6561	9836	27	22.4958	3277
3	2.4844	0358	28	23.3396	9813
4	3.3127	3601	29	24.1847	1336
5	4.1412	3801	30	25.0309	1669
6	4.9699	5191	31	25.8783	4606
7	5.7989	1995	32	26.7270	3912
8	6.6281	8433	33	27.5770	3321
9	7.4577	8720	34	28.4283	6534
10	8.2877	7058	35	29.2810	7218
11	9.1181	7643	36	30.1351	9008
12	9.9490	4659	37	30.9907	5504
13	10.7804	2279	38	31.8478	0269
14	11.6123	4664	39	32.7063	6830
15	12.4448	5961	40	33.5664	8676
16	13.2780	0302	41	34.4281	9261
17	14.1118	1804	42	35.2915	1994
18	14.9463	4568	43	36.1565	0250
19	15.7816	2676	44	37.0231	7358
20	16.6177	0193	45	37.8915	6610
21	17.4546	1163	46	38.7617	1251
22	18.2923	9610	47	39.6336	4486
23	19.1310	9537	48	40.5073	9475
24	19.9707	4923	49	41.3829	9333
25	20.8113	9725	50	42.2604	7129

$$e = 89^c$$

θ	mean anomaly		θ	mean anomaly	
50	42.2604	7129	75	64.8878	1842
51	43.1398	5886	76	65.8232	7422
52	44.0211	8581	77	66.7612	4098
53	44.9044	8141	78	67.7017	3400
54	45.7897	7445	79	68.6447	6796
55	46.6770	9325	80	69.5903	5692
56	47.5664	6560	81	70.5385	1430
57	48.4579	1880	82	71.4892	5290
58	49.3514	7963	83	72.4425	8487
59	50.2471	7435	84	73.3985	2172
60	51.1450	2870	85	74.3570	7433
61	52.0450	6788	86	75.3182	5292
62	52.9473	1656	87	76.2820	6707
63	53.8517	9885	88	77.2485	2571
64	54.7585	3832	89	78.2176	3712
65	55.6675	5799	90	79.1894	0891
66	56.5788	8029	91	80.1638	4805
67	57.4925	2712	92	81.1409	6086
68	58.4085	1977	93	82.1207	5297
69	59.3268	7898	94	83.1032	2937
70	60.2476	2489	95	84.0883	9438
71	61.1707	7705	96	85.0762	5167
72	62.0963	5442	97	86.0668	0423
73	63.0243	7536	98	87.0600	5440
74	63.9548	5765	99	88.0560	0383
75	64.8878	1842	100	89.0546	5353

$$e = 89^c$$

θ	mean anomaly		θ	mean anomaly	
100	89.0546	5353	125	114.8878	1842
101	90.0560	0383	126	115.9548	5765
102	91.0600	5440	127	117.0243	7536
103	92.0668	0423	128	118.0963	5442
104	93.0762	5167	129	119.1707	7705
105	94.0883	9438	130	120.2476	2489
106	95.1032	2937	131	121.3268	7898
107	96.1207	5297	132	122.4085	1977
108	97.1409	6086	133	123.4925	2712
109	98.1638	4805	134	124.5788	8029
110	99.1894	0891	135	125.6675	5799
111	100.2176	3712	136	126.7585	3832
112	101.2485	2571	137	127.8517	9885
113	102.2820	6707	138	128.9473	1656
114	103.3182	5292	139	130.0450	6788
115	104.3570	7433	140	131.1450	2870
116	105.3985	2172	141	132.2471	7435
117	106.4425	8487	142	133.3514	7963
118	107.4892	5290	143	134.4579	1880
119	108.5385	1430	144	135.5664	6560
120	109.5903	5692	145	136.6770	9325
121	110.6447	6796	146	137.7897	7445
122	111.7017	3400	147	138.9044	8141
123	112.7612	4098	148	140.0211	8581
124	113.8232	7422	149	141.1398	5886
125	114.8878	1842	150	142.2604	7129

$$e = 89^c$$

θ	mean anomaly		θ	mean anomaly	
150	142.2604	7129	175	170.8113	9725
151	143.3829	9333	176	171.9707	4923
152	144.5073	9475	177	173.1310	9537
153	145.6336	4486	178	174.2923	9610
154	146.7617	1251	179	175.4546	1163
155	147.8915	6610	180	176.6177	0193
156	149.0231	7358	181	177.7816	2676
157	150.1565	0250	182	178.9463	4568
158	151.2915	1994	183	180.1118	1804
159	152.4281	9261	184	181.2780	0302
160	153.5664	8676	185	182.4448	5961
161	154.7063	6830	186	183.6123	4664
162	155.8478	0269	187	184.7804	2279
163	156.9907	5504	188	185.9490	4659
164	158.1351	9008	189	187.1181	7643
165	159.2810	7218	190	188.2877	7058
166	160.4283	6534	191	189.4577	8720
167	161.5770	3321	192	190.6281	8433
168	162.7270	3912	193	191.7989	1995
169	163.8783	4606	194	192.9699	5191
170	165.0309	1669	195	194.1412	3801
171	166.1847	1336	196	195.3127	3601
172	167.3396	9813	197	196.4844	0358
173	168.4958	3277	198	197.6561	9836
174	169.6530	7874	199	198.8280	7797
175	170.8113	9725	200	200.0000	0000

$$e = 90^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	21.1888	8350
1	0.8435	7197	26	22.0448	3301
2	1.6871	8253	27	22.9017	5840
3	2.5308	7028	28	23.7596	9497
4	3.3746	7378	29	24.6186	7777
5	4.2186	3157	30	25.4787	4159
6	5.0627	8214	31	26.3399	2097
7	5.9071	6397	32	27.2022	5016
8	6.7518	1543	33	28.0657	6311
9	7.5967	7487	34	28.9304	9352
10	8.4420	8053	35	29.7964	7475
11	9.2877	7058	36	30.6637	3988
12	10.1338	8310	37	31.5323	2164
13	10.9804	5606	38	32.4022	5247
14	11.8275	2731	39	33.2735	6447
15	12.6751	3458	40	34.1462	8937
16	13.5233	1548	41	35.0204	5860
17	14.3721	0747	42	35.8961	0318
18	15.2215	4784	43	36.7732	5381
19	16.0716	7376	44	37.6519	4079
20	16.9225	2220	45	38.5321	9407
21	17.7741	2996	46	39.4140	4318
22	18.6265	3366	47	40.2975	1727
23	19.4797	6971	48	41.1826	4510
24	20.3338	7432	49	42.0694	5502
25	21.1888	8350	50	42.9579	7494

$$e = 90^c$$

θ	mean anomaly		θ	mean anomaly	
50	42.9579	7494	75	65.7991	5085
51	43.8482	3237	76	66.7404	2352
52	44.7402	5440	77	67.6839	8085
53	45.6340	6766	78	68.6298	3677
54	46.5296	9835	79	69.5780	0464
55	47.4271	7223	80	70.5284	9725
56	48.3265	1459	81	71.4813	2680
57	49.2277	5027	82	72.4365	0495
58	50.1309	0363	83	73.3940	4274
59	51.0359	9858	84	74.3539	5066
60	51.9430	5853	85	75.3162	3860
61	52.8521	0640	86	76.2809	1587
62	53.7631	6465	87	77.2479	9117
63	54.6762	5521	88	78.2174	7263
64	55.5913	9953	89	79.1893	6779
65	56.5086	1855	90	80.1636	8357
66	57.4279	3268	91	81.1404	2632
67	58.3493	6185	92	82.1196	0176
68	59.2729	2543	93	83.1012	1505
69	60.1986	4229	94	84.0852	7072
70	61.1265	3076	95	85.0717	7270
71	62.0566	0861	96	86.0607	2432
72	62.9888	9312	97	87.0521	2830
73	63.9234	0098	98	88.0459	8678
74	64.8601	4836	99	89.0423	0126
75	65.7991	5085	100	90.0410	7265

$$e = 90^c$$

θ	mean anomaly		θ	mean anomaly	
100	90.0410	7265	125	115.7991	5085
101	91.0423	0126	126	116.8601	4836
102	92.0459	8678	127	117.9234	0098
103	93.0521	2830	128	118.9888	9312
104	94.0607	2432	129	120.0566	0861
105	95.0717	7270	130	121.1265	3076
106	96.0852	7072	131	122.1986	4229
107	97.1012	1505	132	123.2729	2543
108	98.1196	0176	133	124.3493	6185
109	99.1404	2632	134	125.4279	3268
110	100.1636	8357	135	126.5086	1855
111	101.1893	6779	136	127.5913	9953
112	102.2174	7263	137	128.6762	5521
113	103.2479	9117	138	129.7631	6465
114	104.2809	1587	139	130.8521	0640
115	105.3162	3860	140	131.9430	5853
116	106.3539	5066	141	133.0359	9858
117	107.3940	4274	142	134.1309	0363
118	108.4365	0495	143	135.2277	5027
119	109.4813	2680	144	136.3265	1459
120	110.5284	9725	145	137.4271	7223
121	111.5780	0464	146	138.5296	9835
122	112.6298	3677	147	139.6340	6766
123	113.6839	8085	148	140.7402	5440
124	114.7404	2352	149	141.8482	3237
125	115.7991	5085	150	142.9579	7494

$$e = 90^c$$

θ	mean anomaly		θ	mean anomaly	
150	142.9579	7494	175	171.1888	8350
151	144.0694	5502	176	172.3338	7432
152	145.1826	4510	177	173.4797	6971
153	146.2975	1727	178	174.6265	3366
154	147.4140	4318	179	175.7741	2996
155	148.5321	9407	180	176.9225	2220
156	149.6519	4079	181	178.0716	7376
157	150.7732	5381	182	179.2215	4784
158	151.8961	0318	183	180.3721	0747
159	153.0204	5860	184	181.5233	1548
160	154.1462	8937	185	182.6751	3458
161	155.2735	6447	186	183.8275	2731
162	156.4022	5247	187	184.9804	5606
163	157.5323	2164	188	186.1338	8310
164	158.6637	3988	189	187.2877	7058
165	159.7964	7475	190	188.4420	8053
166	160.9304	9352	191	189.5967	7487
167	162.0657	6311	192	190.7518	1543
168	163.2022	5016	193	191.9071	6397
169	164.3399	2097	194	193.0627	8214
170	165.4787	4159	195	194.2186	3157
171	166.6186	7777	196	195.3746	7378
172	167.7596	9497	197	196.5308	7028
173	168.9017	5840	198	197.6871	8253
174	170.0448	3301	199	198.8435	7197
175	171.1888	8350	200	200.0000	0000

$$e = 91^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	21.5673	1009
1	0.8591	0456	26	22.4375	6316
2	1.7182	4389	27	23.3086	9521
3	2.5774	5273	28	24.1807	3803
4	3.4367	6584	29	25.0537	2320
5	4.2962	1791	30	25.9276	8205
6	5.1558	4363	31	26.8026	4569
7	6.0156	7763	32	27.6786	4496
8	6.8757	5450	33	28.5557	1047
9	7.7361	0876	34	29.4338	7253
10	8.5967	7487	35	30.3131	6122
11	9.4577	8720	36	31.1936	0631
12	10.3191	8005	37	32.0752	3731
13	11.1809	8761	38	32.9580	8342
14	12.0432	4399	39	33.8421	7355
15	12.9059	8318	40	34.7275	3630
16	13.7692	3902	41	35.6141	9995
17	14.6330	4528	42	36.5021	9246
18	15.4974	3554	43	37.3915	4147
19	16.3624	4328	44	38.2822	7429
20	17.2281	0179	45	39.1744	1787
21	18.0944	4423	46	40.0679	9883
22	18.9615	0357	47	40.9630	4342
23	19.8293	1262	48	41.8595	7753
24	20.6979	0398	49	42.7576	2671
25	21.5673	1009	50	43.6572	1610

$$e = 91^c$$

θ	mean anomaly		θ	mean anomaly	
50	43.6572	1610	75	66.7127	5346
51	44.5583	7047	76	67.6598	5748
52	45.4611	1422	77	68.6090	1932
53	46.3654	7134	78	69.5602	5150
54	47.2714	6543	79	70.5135	6606
55	48.1791	1969	80	71.4689	7453
56	49.0884	5690	81	72.4264	8789
57	49.9994	9943	82	73.3861	1665
58	50.9122	6923	83	74.3478	7074
59	51.8267	8781	84	75.3117	5963
60	52.7430	7628	85	76.2777	9220
61	53.6611	5529	86	77.2459	7685
62	54.5810	4505	87	78.2163	2143
63	55.5027	6533	88	79.1888	3324
64	56.4263	3543	89	80.1635	1908
65	57.3517	7422	90	81.1403	8519
66	58.2791	0010	91	82.1194	3728
67	59.2083	3100	92	83.1006	8051
68	60.1394	8437	93	84.0841	1952
69	61.0725	7721	94	85.0697	5838
70	62.0076	2602	95	86.0576	0065
71	62.9446	4683	96	87.0476	4933
72	63.8836	5517	97	88.0399	0686
73	64.8246	6611	98	89.0343	7516
74	65.7676	9418	99	90.0310	5559
75	66.7127	5346	100	91.0299	4898

$$e = 91^c$$

θ	mean anomaly		θ	mean anomaly	
100	91.0299	4898	125	116.7127	5346
101	92.0310	5559	126	117.7676	9418
102	93.0343	7516	127	118.8246	6611
103	94.0399	0686	128	119.8836	5517
104	95.0476	4933	129	120.9446	4683
105	96.0576	0065	130	122.0076	2602
106	97.0697	5838	131	123.0725	7721
107	98.0841	1952	132	124.1394	8437
108	99.1006	8051	133	125.2083	3100
109	100.1194	3728	134	126.2791	0010
110	101.1403	8519	135	127.3517	7422
111	102.1635	1908	136	128.4263	3543
112	103.1888	3324	137	129.5027	6533
113	104.2163	2143	138	130.5810	4505
114	105.2459	7685	139	131.6611	5529
115	106.2777	9220	140	132.7430	7628
116	107.3117	5963	141	133.8267	8781
117	108.3478	7074	142	134.9122	6923
118	109.3861	1665	143	135.9994	9943
119	110.4264	8789	144	137.0884	5690
120	111.4689	7453	145	138.1791	1969
121	112.5135	6606	146	139.2714	6543
122	113.5602	5150	147	140.3654	7134
123	114.6090	1932	148	141.4611	1422
124	115.6598	5748	149	142.5583	7047
125	116.7127	5346	150	143.6572	1610

$$e = 91^c$$

θ	mean anomaly		θ	mean anomaly	
150	143.6572	1610	175	171.5673	1009
151	144.7576	2671	176	172.6979	0398
152	145.8595	7753	177	173.8293	1262
153	146.9630	4342	178	174.9615	0357
154	148.0679	9883	179	176.0944	4423
155	149.1744	1787	180	177.2281	0179
156	150.2822	7429	181	178.3624	4328
157	151.3915	4147	182	179.4974	3554
158	152.5021	9246	183	180.6330	4528
159	153.6141	9995	184	181.7692	3902
160	154.7275	3630	185	182.9059	8318
161	155.8421	7355	186	184.0432	4399
162	156.9580	8342	187	185.1809	8761
163	158.0752	3731	188	186.3191	8005
164	159.1936	0631	189	187.4577	8720
165	160.3131	6122	190	188.5967	7487
166	161.4338	7253	191	189.7361	0876
167	162.5557	1047	192	190.8757	5450
168	163.6786	4496	193	192.0156	7763
169	164.8026	4569	194	193.1558	4363
170	165.9276	8205	195	194.2962	1791
171	167.0537	2320	196	195.4367	6584
172	168.1807	3803	197	196.5774	5273
173	169.3086	9521	198	197.7182	4389
174	170.4375	6316	199	198.8591	0456
175	171.5673	1009	200	200.0000	0000

$$e = 92^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	21.9465	8364
1	0.8746	7192	26	22.8311	7229
2	1.7493	7476	27	23.7165	4279
3	2.6241	3945	28	24.6027	2344
4	3.4989	9686	29	25.4897	4232
5	4.3739	7790	30	26.3776	2730
6	5.2491	1339	31	27.2664	0605
7	6.1244	3416	32	28.1561	0600
8	6.9999	7096	33	29.0467	5438
9	7.8757	5450	34	29.9383	7816
10	8.7518	1543	35	30.8310	0409
11	9.6281	8433	36	31.7246	5865
12	10.5048	9171	37	32.6193	6809
13	11.3819	6799	38	33.5151	5839
14	12.2594	4348	39	34.4120	5525
15	13.1373	4844	40	35.3100	8412
16	14.0157	1297	41	36.2092	7016
17	14.8945	6710	42	37.1096	3824
18	15.7739	4072	43	38.0112	1294
19	16.6538	6358	44	38.9140	1855
20	17.5343	6531	45	39.8180	7905
21	18.4154	7540	46	40.7234	1811
22	19.2972	2319	47	41.6300	5909
23	20.1796	3784	48	42.5380	2502
24	21.0627	4838	49	43.4473	3861
25	21.9465	8364	50	44.3580	2224

$$e = 92^c$$

θ	mean anomaly		θ	mean anomaly	
50	44.3580	2224	75	67.6284	0081
51	45.2700	9795	76	68.5813	4925
52	46.1835	8741	77	69.5361	2813
53	47.0985	1200	78	70.4927	4860
54	48.0148	9268	79	71.4512	2138
55	48.9327	5010	80	72.4115	5671
56	49.8521	0453	81	73.3737	6437
57	50.7729	7586	82	74.3378	5369
58	51.6953	8361	83	75.3038	3353
59	52.6193	4693	84	76.2717	1228
60	53.5448	8458	85	77.2414	9788
61	54.4720	1493	86	78.2131	9777
62	55.4007	5597	87	79.1868	1893
63	56.3311	2527	88	80.1623	6788
64	57.2631	4002	89	81.1398	5065
65	58.1968	1699	90	82.1192	7279
66	59.1321	7254	91	83.1006	3939
67	60.0692	2262	92	84.0839	5503
68	61.0079	8277	93	85.0692	2384
69	61.9484	6810	94	86.0564	4945
70	62.8906	9328	95	87.0456	3501
71	63.8346	7258	96	88.0367	8320
72	64.7804	1982	97	89.0298	9618
73	65.7279	4838	98	90.0249	7567
74	66.6772	7121	99	91.0220	2288
75	67.6284	0081	100	92.0210	3854

$$e = 92^c$$

θ	mean anomaly		θ	mean anomaly	
100	92.0210	3854	125	117.6284	0081
101	93.0220	2288	126	118.6772	7121
102	94.0249	7567	127	119.7279	4838
103	95.0298	9618	128	120.7804	1982
104	96.0367	8320	129	121.8346	7258
105	97.0456	3501	130	122.8906	9328
106	98.0564	4945	131	123.9484	6810
107	99.0692	2384	132	125.0079	8277
108	100.0839	5503	133	126.0692	2262
109	101.1006	3939	134	127.1321	7254
110	102.1192	7279	135	128.1968	1699
111	103.1398	5065	136	129.2631	4002
112	104.1623	6788	137	130.3311	2527
113	105.1868	1893	138	131.4007	5597
114	106.2131	9777	139	132.4720	1493
115	107.2414	9788	140	133.5448	8458
116	108.2717	1228	141	134.6193	4693
117	109.3038	3353	142	135.6953	8361
118	110.3378	5369	143	136.7729	7586
119	111.3737	6437	144	137.8521	0453
120	112.4115	5671	145	138.9327	5010
121	113.4512	2138	146	140.0148	9268
122	114.4927	4860	147	141.0985	1200
123	115.5361	2813	148	142.1835	8741
124	116.5813	4925	149	143.2700	9795
125	117.6284	0081	150	144.3580	2224

$$e = 92^c$$

θ	mean anomaly		θ	mean anomaly	
150	144.3580	2224	175	171.9465	8364
151	145.4473	3861	176	173.0627	4838
152	146.5380	2502	177	174.1796	3784
153	147.6300	5909	178	175.2972	2319
154	148.7234	1811	179	176.4154	7540
155	149.8180	7905	180	177.5343	6531
156	150.9140	1855	181	178.6538	6358
157	152.0112	1294	182	179.7739	4072
158	153.1096	3824	183	180.8945	6710
159	154.2092	7016	184	182.0157	1297
160	155.3100	8412	185	183.1373	4844
161	156.4120	5525	186	184.2594	4348
162	157.5151	5839	187	185.3819	6799
163	158.6193	6809	188	186.5048	9171
164	159.7246	5865	189	187.6281	8433
165	160.8310	0409	190	188.7518	1543
166	161.9383	7816	191	189.8757	5450
167	163.0467	5438	192	190.9999	7096
168	164.1561	0600	193	192.1244	3416
169	165.2664	0605	194	193.2491	1339
170	166.3776	2730	195	194.3739	7790
171	167.4897	4232	196	195.4989	9686
172	168.6027	2344	197	196.6241	3945
173	169.7165	4279	198	197.7493	7476
174	170.8311	7229	199	198.8746	7192
175	171.9465	8364	200	200.0000	0000

$$e = 93^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	22.3266	1058
1	0.8902	7020	26	23.2255	6327
2	1.7805	6748	27	24.1252	0052
3	2.6709	1889	28	25.0255	4708
4	3.5613	5151	29	25.9266	2754
5	4.4518	9235	30	26.8284	6631
6	5.3425	6843	31	27.7310	8761
7	6.2334	0672	32	28.6345	1546
8	7.1244	3416	33	29.5387	7370
9	8.0156	7763	34	30.4438	8594
10	8.9071	6397	35	31.3498	7560
11	9.7989	1995	36	32.2567	6587
12	10.6909	7227	37	33.1645	7973
13	11.5833	4758	38	34.0733	3992
14	12.4760	7243	39	34.9830	6896
15	13.3691	7328	40	35.8937	8912
16	14.2626	7652	41	36.8055	2242
17	15.1566	0841	42	37.7182	9064
18	16.0509	9514	43	38.6321	1532
19	16.9458	6275	44	39.5470	1770
20	17.8412	3719	45	40.4630	1879
21	18.7371	4427	46	41.3801	3931
22	19.6336	0967	47	42.2983	9972
23	20.5306	5895	48	43.2178	2017
24	21.4283	1750	49	44.1384	2056
25	22.3266	1058	50	45.0602	2046

$$e = 93^c$$

θ	mean anomaly		θ	mean anomaly	
50	45.0602	2046	75	68.5458	6700
51	45.9832	3919	76	69.5046	7146
52	46.9074	9572	77	70.4650	7854
53	47.8330	0876	78	71.4270	9801
54	48.7597	9667	79	72.3907	3925
55	49.6878	7752	80	73.3560	1123
56	50.6172	6906	81	74.3229	2251
57	51.5479	8871	82	75.2914	8125
58	52.4800	5356	83	76.2616	9523
59	53.4134	8037	84	77.2335	7178
60	54.3482	8558	85	78.2071	1785
61	55.2844	8526	86	79.1823	3996
62	56.2220	9516	87	80.1592	4422
63	57.1611	3067	88	81.1378	3634
64	58.1016	0683	89	82.1181	2159
65	59.0435	3833	90	83.1001	0485
66	59.9869	3951	91	84.0837	9055
67	60.9318	2431	92	85.0691	8272
68	61.8782	0635	93	86.0562	8497
69	62.8260	9884	94	87.0451	0047
70	63.7755	1466	95	88.0356	3199
71	64.7264	6627	96	89.0278	8187
72	65.6789	6579	97	90.0218	5201
73	66.6330	2492	98	91.0175	4391
74	67.5886	5501	99	92.0149	5862
75	68.5458	6700	100	93.0140	9679

$$e = 93^c$$

θ	mean anomaly		θ	mean anomaly	
100	93.0140	9679	125	118.5458	6700
101	94.0149	5862	126	119.5886	5501
102	95.0175	4391	127	120.6330	2492
103	96.0218	5201	128	121.6789	6579
104	97.0278	8187	129	122.7264	6627
105	98.0356	3199	130	123.7755	1466
106	99.0451	0047	131	124.8260	9884
107	100.0562	8497	132	125.8782	0635
108	101.0691	8272	133	126.9318	2431
109	102.0837	9055	134	127.9869	3951
110	103.1001	0485	135	129.0435	3833
111	104.1181	2159	136	130.1016	0683
112	105.1378	3634	137	131.1611	3067
113	106.1592	4422	138	132.2220	9516
114	107.1823	3996	139	133.2844	8526
115	108.2071	1785	140	134.3482	8558
116	109.2335	7178	141	135.4134	8037
117	110.2616	9523	142	136.4800	5356
118	111.2914	8125	143	137.5479	8871
119	112.3229	2251	144	138.6172	6906
120	113.3560	1123	145	139.6878	7752
121	114.3907	3925	146	140.7597	9667
122	115.4270	9801	147	141.8330	0876
123	116.4650	7854	148	142.9074	9572
124	117.5046	7146	149	143.9832	3919
125	118.5458	6700	150	145.0602	2046

$$e = 93^{\circ}$$

θ	mean anomaly		θ	mean anomaly	
150	145.0602	2046	175	172.3266	1058
151	146.1384	2056	176	173.4283	1750
152	147.2178	2017	177	174.5306	5895
153	148.2983	9972	178	175.6336	0967
154	149.3801	3931	179	176.7371	4427
155	150.4630	1879	180	177.8412	3719
156	151.5470	1770	181	178.9458	6275
157	152.6321	1532	182	180.0509	9514
158	153.7182	9064	183	181.1566	0841
159	154.8055	2242	184	182.2626	7652
160	155.8937	8912	185	183.3691	7328
161	156.9830	6896	186	184.4760	7243
162	158.0733	3992	187	185.5833	4758
163	159.1645	7973	188	186.6909	7227
164	160.2567	6587	189	187.7989	1995
165	161.3498	7560	190	188.9071	6397
166	162.4438	8594	191	190.0156	7763
167	163.5387	7370	192	191.1244	3416
168	164.6345	1546	193	192.2334	0672
169	165.7310	8761	194	193.3425	6843
170	166.8284	6631	195	194.4518	9235
171	167.9266	2754	196	195.5613	5151
172	169.0255	4708	197	196.6709	1889
173	170.1252	0052	198	197.7805	6748
174	171.2255	6327	199	198.8902	7020
175	172.3266	1058	200	200.0000	0000

$$e = 94^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	22.7072	9714
1	0.9058	9556	26	23.6206	3881
2	1.8118	1433	27	24.5345	6756
3	2.7177	7954	28	25.4491	0462
4	3.6238	1438	29	26.3642	7107
5	4.5299	4204	30	27.2800	8785
6	5.4361	8568	31	28.1965	7572
7	6.3425	6843	32	29.1137	5530
8	7.2491	1339	33	30.0316	4702
9	8.1558	4363	34	30.9502	7113
10	9.0627	8214	35	31.8696	4772
11	9.9699	5191	36	32.7897	9668
12	10.8773	7581	37	33.7107	3770
13	11.7850	7672	38	34.6324	9030
14	12.6930	7738	39	35.5550	7379
15	13.6014	0051	40	36.4785	0726
16	14.5100	6872	41	37.4028	0960
17	15.4191	0455	42	38.3279	9950
18	16.3285	3044	43	39.2540	9540
19	17.2383	6874	44	40.1811	1556
20	18.1486	4170	45	41.1090	7796
21	19.0593	7146	46	42.0380	0040
22	19.9705	8003	47	42.9679	0039
23	20.8822	8933	48	43.8987	9525
24	21.7945	2115	49	44.8307	0202
25	22.7072	9714	50	45.7636	3750

$$e = 94^c$$

θ	mean anomaly		θ	mean anomaly	
50	45.7636	3750	75	69.4649	2565
51	46.6976	1824	76	70.4295	9629
52	47.6326	6053	77	71.3956	4134
53	48.5687	8039	78	72.3630	6918
54	49.5059	9359	79	73.3318	8785
55	50.4443	1562	80	74.3021	0505
56	51.3837	6170	81	75.2737	2811
57	52.3243	4676	82	76.2467	6405
58	53.2660	8547	83	77.2212	1950
59	54.2089	9221	84	78.1971	0079
60	55.1530	8105	85	79.1744	1386
61	56.0983	6580	86	80.1531	6430
62	57.0448	5995	87	81.1333	5736
63	57.9925	7671	88	82.1149	9793
64	58.9415	2898	89	83.0980	9053
65	59.8917	2935	90	84.0826	3934
66	60.8431	9011	91	85.0686	4818
67	61.7959	2323	92	86.0561	2048
68	62.7499	4038	93	87.0450	5935
69	63.7052	5291	94	88.0354	6751
70	64.6618	7183	95	89.0273	4733
71	65.6198	0786	96	90.0207	0081
72	66.5790	7137	97	91.0155	2959
73	67.5396	7242	98	92.0118	3496
74	68.5016	2071	99	93.0096	1781
75	69.4649	2565	100	94.0088	7870

$$e = 94^c$$

θ	mean anomaly		θ	mean anomaly	
100	94.0088	7870	125	119.4649	2565
101	95.0096	1781	126	120.5016	2071
102	96.0118	3496	127	121.5396	7242
103	97.0155	2959	128	122.5790	7137
104	98.0207	0081	129	123.6198	0786
105	99.0273	4733	130	124.6618	7183
106	100.0354	6751	131	125.7052	5291
107	101.0450	5935	132	126.7499	4038
108	102.0561	2048	133	127.7959	2323
109	103.0686	4818	134	128.8431	9011
110	104.0826	3934	135	129.8917	2935
111	105.0980	9053	136	130.9415	2898
112	106.1149	9793	137	131.9925	7671
113	107.1333	5736	138	133.0448	5995
114	108.1531	6430	139	134.0983	6580
115	109.1744	1386	140	135.1530	8105
116	110.1971	0079	141	136.2089	9221
117	111.2212	1950	142	137.2660	8547
118	112.2467	6405	143	138.3243	4676
119	113.2737	2811	144	139.3837	6170
120	114.3021	0505	145	140.4443	1562
121	115.3318	8785	146	141.5059	9359
122	116.3630	6918	147	142.5687	8039
123	117.3956	4134	148	143.6326	6053
124	118.4295	9629	149	144.6976	1824
125	119.4649	2565	150	145.7636	3750

$$e = 94^c$$

θ	mean anomaly		θ	mean anomaly	
150	145.7636	3750	175	172.7072	9714
151	146.8307	0202	176	173.7945	2115
152	147.8987	9525	177	174.8822	8933
153	148.9679	0039	178	175.9705	8003
154	150.0380	0040	179	177.0593	7146
155	151.1090	7796	180	178.1486	4170
156	152.1811	1556	181	179.2383	6874
157	153.2540	9540	182	180.3285	3044
158	154.3279	9950	183	181.4191	0455
159	155.4028	0960	184	182.5100	6872
160	156.4785	0726	185	183.6014	0051
161	157.5550	7379	186	184.6930	7738
162	158.6324	9030	187	185.7850	7672
163	159.7107	3770	188	186.8773	7581
164	160.7897	9668	189	187.9699	5191
165	161.8696	4772	190	189.0627	8214
166	162.9502	7113	191	190.1558	4363
167	164.0316	4702	192	191.2491	1339
168	165.1137	5530	193	192.3425	6843
169	166.1965	7572	194	193.4361	8568
170	167.2800	8785	195	194.5299	4204
171	168.3642	7107	196	195.6238	1438
172	169.4491	0462	197	196.7177	7954
173	170.5345	6756	198	197.8118	1433
174	171.6206	3881	199	198.9058	9556
175	172.7072	9714	200	200.0000	0000

$$e = 95^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	23.0885	4938
1	0.9215	4413	26	24.0163	0142
2	1.8431	0762	27	24.9445	4291
3	2.7647	0982	28	25.8732	9155
4	3.6863	7007	29	26.8025	6492
5	4.6081	0771	30	27.7323	8048
6	5.5299	4204	31	28.6627	5554
7	6.4518	9235	32	29.5937	0728
8	7.3739	7790	33	30.5252	5274
9	8.2962	1791	34	31.4574	0880
10	9.2186	3157	35	32.3901	9221
11	10.1412	3801	36	33.3236	1955
12	11.0640	5635	37	34.2577	0725
13	11.9871	0561	38	35.1924	7156
14	12.9104	0479	39	36.1279	2860
15	13.8339	7282	40	37.0640	9427
16	14.7578	2854	41	38.0009	8433
17	15.6819	9075	42	38.9386	1436
18	16.6064	7816	43	39.8769	9974
19	17.5313	0940	44	40.8161	5567
20	18.4565	0302	45	41.7560	9716
21	19.3820	7747	46	42.6968	3905
22	20.3080	5112	47	43.6383	9593
23	21.2344	4223	48	44.5807	8224
24	22.1612	6897	49	45.5240	1220
25	23.0885	4938	50	46.4680	9980

$$e = 95^c$$

θ	mean anomaly		θ	mean anomaly	
50	46.4680	9980	75	70.3853	5000
51	47.4130	5884	76	71.3558	9554
52	48.3589	0291	77	72.3275	8694
53	49.3056	4537	78	73.3004	3119
54	50.2532	9935	79	74.2744	3498
55	51.2018	7777	80	75.2496	0474
56	52.1513	9333	81	76.2259	4659
57	53.1018	5847	82	77.2034	6636
58	54.0532	8541	83	78.1821	6961
59	55.0056	8615	84	79.1620	6158
60	55.9590	7243	85	80.1431	4725
61	56.9134	5575	86	81.1254	3126
62	57.8688	4736	87	82.1089	1801
63	58.8252	5827	88	83.0936	1156
64	59.7826	9923	89	84.0795	1568
65	60.7411	8075	90	85.0666	3386
66	61.7007	1308	91	86.0549	6928
67	62.6613	0618	92	87.0445	2481
68	63.6229	6979	93	88.0353	0302
69	64.5857	1337	94	89.0273	0620
70	65.5495	4611	95	90.0205	3632
71	66.5144	7694	96	91.0149	9505
72	67.4805	1449	97	92.0106	8375
73	68.4476	6717	98	93.0076	0350
74	69.4159	4306	99	94.0057	5504
75	70.3853	5000	100	95.0051	3883

$$e = 95^c$$

θ	mean anomaly		θ	mean anomaly	
100	95.0051	3883	125	120.3853	5000
101	96.0057	5504	126	121.4159	4306
102	97.0076	0350	127	122.4476	6717
103	98.0106	8375	128	123.4805	1449
104	99.0149	9505	129	124.5144	7694
105	100.0205	3632	130	125.5495	4611
106	101.0273	0620	131	126.5857	1337
107	102.0353	0302	132	127.6229	6979
108	103.0445	2481	133	128.6613	0618
109	104.0549	6928	134	129.7007	1308
110	105.0666	3386	135	130.7411	8075
111	106.0795	1568	136	131.7826	9923
112	107.0936	1156	137	132.8252	5827
113	108.1089	1801	138	133.8688	4736
114	109.1254	3126	139	134.9134	5575
115	110.1431	4725	140	135.9590	7243
116	111.1620	6158	141	137.0056	8615
117	112.1821	6961	142	138.0532	8541
118	113.2034	6636	143	139.1018	5847
119	114.2259	4659	144	140.1513	9333
120	115.2496	0474	145	141.2018	7777
121	116.2744	3498	146	142.2532	9935
122	117.3004	3119	147	143.3056	4537
123	118.3275	8694	148	144.3589	0291
124	119.3558	9554	149	145.4130	5884
125	120.3853	5000	150	146.4680	9980

$$e = 95^c$$

θ	mean anomaly		θ	mean anomaly	
150	146.4680	9980	175	173.0885	4938
151	147.5240	1220	176	174.1612	6897
152	148.5807	8224	177	175.2344	4223
153	149.6383	9593	178	176.3080	5112
154	150.6968	3905	179	177.3820	7747
155	151.7560	9716	180	178.4565	0302
156	152.8161	5567	181	179.5313	0940
157	153.8769	9974	182	180.6064	7816
158	154.9386	1436	183	181.6819	9075
159	156.0009	8433	184	182.7578	2854
160	157.0640	9427	185	183.8339	7282
161	158.1279	2860	186	184.9104	0479
162	159.1924	7156	187	185.9871	0561
163	160.2577	0725	188	187.0640	5635
164	161.3236	1955	189	188.1412	3801
165	162.3901	9221	190	189.2186	3157
166	163.4574	0880	191	190.2962	1791
167	164.5252	5274	192	191.3739	7790
168	165.5937	0728	193	192.4518	9235
169	166.6627	5554	194	193.5299	4204
170	167.7323	8048	195	194.6081	0771
171	168.8025	6492	196	195.6863	7007
172	169.8732	9155	197	196.7647	0982
173	170.9445	4291	198	197.8431	0762
174	172.0163	0142	199	198.9215	4413
175	173.0885	4938	200	200.0000	0000

$$e = 96^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	23.4702	7325
1	0.9372	1206	26	24.4124	5348
2	1.8744	3962	27	25.3550	2541
3	2.8116	9815	28	26.2980	0322
4	3.7490	0315	29	27.2414	0097
5	4.6863	7007	30	28.1852	3262
6	5.6238	1438	31	29.1295	1204
7	6.5613	5151	32	30.0742	5298
8	7.4989	9686	33	31.0194	6906
9	8.4367	6584	34	31.9651	7382
10	9.3746	7378	35	32.9113	8063
11	10.3127	3601	36	33.8581	0278
12	11.2509	6781	37	34.8053	5341
13	12.1893	8443	38	35.7531	4554
14	13.1280	0105	39	36.7014	9205
15	14.0668	3283	40	37.6504	0567
16	15.0058	9485	41	38.5998	9903
17	15.9452	0215	42	39.5499	8457
18	16.8847	6971	43	40.5006	7462
19	17.8246	1243	44	41.4519	8134
20	18.7647	4516	45	42.4039	1675
21	19.7051	8268	46	43.3564	9270
22	20.6459	3967	47	44.3097	2089
23	21.5870	3075	48	45.2636	1288
24	22.5284	7046	49	46.2181	8002
25	23.4702	7325	50	47.1734	3354

$$e = 96^c$$

θ	mean anomaly		θ	mean anomaly	
50	47.1734	3354	75	71.3069	1294
51	48.1293	8447	76	72.2833	4065
52	49.0860	4368	77	73.2606	8538
53	50.0434	2187	78	74.2389	5273
54	51.0015	2955	79	75.2181	4807
55	51.9603	7705	80	76.1982	7652
56	52.9199	7454	81	77.1793	4299
57	53.8803	3198	82	78.1613	5215
58	54.8414	5914	83	79.1443	0844
59	55.8033	6564	84	80.1282	1606
60	56.7660	6085	85	81.1130	7899
61	57.7295	5399	86	82.0989	0096
62	58.6938	5406	87	83.0856	8546
63	59.6589	6988	88	84.0734	3576
64	60.6249	1004	89	85.0621	5489
65	61.5916	8296	90	86.0518	4562
66	62.5592	9683	91	87.0425	1049
67	63.5277	5964	92	88.0341	5182
68	64.4970	7917	93	89.0267	7166
69	65.4672	6300	94	90.0203	7184
70	66.4383	1848	95	91.0149	5393
71	67.4102	5274	96	92.0105	1927
72	68.3830	7273	97	93.0070	6895
73	69.3567	8514	98	94.0046	0384
74	70.3313	9645	99	95.0031	2452
75	71.3069	1294	100	96.0026	3138

$$e = 96^c$$

θ	mean anomaly		θ	mean anomaly	
100	96.0026	3138	125	121.3069	1294
101	97.0031	2452	126	122.3313	9645
102	98.0046	0384	127	123.3567	8514
103	99.0070	6895	128	124.3830	7273
104	100.0105	1927	129	125.4102	5274
105	101.0149	5393	130	126.4383	1848
106	102.0203	7184	131	127.4672	6300
107	103.0267	7166	132	128.4970	7917
108	104.0341	5182	133	129.5277	5964
109	105.0425	1049	134	130.5592	9683
110	106.0518	4562	135	131.5916	8296
111	107.0621	5489	136	132.6249	1004
112	108.0734	3576	137	133.6589	6988
113	109.0856	8546	138	134.6938	5406
114	110.0989	0096	139	135.7295	5399
115	111.1130	7899	140	136.7660	6085
116	112.1282	1606	141	137.8033	6564
117	113.1443	0844	142	138.8414	5914
118	114.1613	5215	143	139.8803	3198
119	115.1793	4299	144	140.9199	7454
120	116.1982	7652	145	141.9603	7705
121	117.2181	4807	146	143.0015	2955
122	118.2389	5273	147	144.0434	2187
123	119.2606	8538	148	145.0860	4368
124	120.2833	4065	149	146.1293	8447
125	121.3069	1294	150	147.1734	3354

$$e = 96^c$$

θ	mean anomaly		θ	mean anomaly	
150	147.1734	3354	175	173.4702	7325
151	148.2181	8002	176	174.5284	7046
152	149.2636	1288	177	175.5870	3075
153	150.3097	2089	178	176.6459	3967
154	151.3564	9270	179	177.7051	8268
155	152.4039	1675	180	178.7647	4516
156	153.4519	8134	181	179.8246	1243
157	154.5006	7462	182	180.8847	6971
158	155.5499	8457	183	181.9452	0215
159	156.5998	9903	184	183.0058	9485
160	157.6504	0567	185	184.0668	3283
161	158.7014	9205	186	185.1280	0105
162	159.7531	4554	187	186.1893	8443
163	160.8053	5341	188	187.2509	6781
164	161.8581	0278	189	188.3127	3601
165	162.9113	8063	190	189.3746	7378
166	163.9651	7382	191	190.4367	6584
167	165.0194	6906	192	191.4989	9686
168	166.0742	5298	193	192.5613	5151
169	167.1295	1204	194	193.6238	1438
170	168.1852	3262	195	194.6863	7007
171	169.2414	0097	196	195.7490	0315
172	170.2980	0322	197	196.8116	9815
173	171.3550	2541	198	197.8744	3962
174	172.4124	5348	199	198.9372	1206
175	173.4702	7325	200	200.0000	0000

$$e = 97^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	23.8523	7456
1	0.9528	9549	26	24.8089	9724
2	1.9058	0260	27	25.7659	1379
3	2.8587	3295	28	26.7231	3483
4	3.8116	9815	29	27.6806	7091
5	4.7647	0982	30	28.6385	3252
6	5.7177	7954	31	29.5967	3006
7	6.6709	1889	32	30.5552	7382
8	7.6241	3945	33	31.5141	7406
9	8.5774	5273	34	32.4734	4089
10	9.5308	7028	35	33.4330	8439
11	10.4844	0358	36	34.3931	1449
12	11.4380	6409	37	35.3535	4108
13	12.3918	6325	38	36.3143	7390
14	13.3458	1246	39	37.2756	2262
15	14.2999	2308	40	38.2372	9681
16	15.2542	0644	41	39.1994	0591
17	16.2086	7380	42	40.1619	5929
18	17.1633	3642	43	41.1249	6618
19	18.1182	0547	44	42.0884	3570
20	19.0732	9209	45	43.0523	7688
21	20.0286	0736	46	44.0167	9860
22	20.9841	6231	47	44.9817	0964
23	21.9399	6790	48	45.9471	1867
24	22.8960	3504	49	46.9130	3422
25	23.8523	7456	50	47.8794	6469

$$e = 97^c$$

θ	mean anomaly		θ	mean anomaly	
50	47.8794	6469	75	72.2293	8710
51	48.8464	1838	76	73.2117	0279
52	49.8139	0342	77	74.1947	0644
53	50.7819	2786	78	75.1784	0227
54	51.7504	9957	79	76.1627	9427
55	52.7196	2631	80	77.1478	8632
56	53.6893	1570	81	78.1336	8208
57	54.6595	7522	82	79.1201	8507
58	55.6304	1220	83	80.1073	9860
59	56.6018	3384	84	81.0953	2584
60	57.5738	4719	85	82.0839	6977
61	58.5464	5916	86	83.0733	3318
62	59.5196	7651	87	84.0634	1871
63	60.4935	0584	88	85.0542	2879
64	61.4679	5360	89	86.0457	6570
65	62.4430	2611	90	87.0380	3152
66	63.4187	2952	91	88.0310	2816
67	64.3950	6982	92	89.0247	5735
68	65.3720	5284	93	90.0192	2064
69	66.3496	8427	94	91.0144	1939
70	67.3279	6963	95	92.0103	5478
71	68.3069	1427	96	93.0070	2783
72	69.2865	2339	97	94.0044	3935
73	70.2668	0202	98	95.0025	8998
74	71.2477	5502	99	96.0014	8017
75	72.2293	8710	100	97.0011	1021

$$e = 97^c$$

θ	mean anomaly		θ	mean anomaly	
100	97.0011	1021	125	122.2293	8710
101	98.0014	8017	126	123.2477	5502
102	99.0025	8998	127	124.2668	0202
103	100.0044	3935	128	125.2865	2339
104	101.0070	2783	129	126.3069	1427
105	102.0103	5478	130	127.3279	6963
106	103.0144	1939	131	128.3496	8427
107	104.0192	2064	132	129.3720	5284
108	105.0247	5735	133	130.3950	6982
109	106.0310	2816	134	131.4187	2952
110	107.0380	3152	135	132.4430	2611
111	108.0457	6570	136	133.4679	5360
112	109.0542	2879	137	134.4935	0584
113	110.0634	1871	138	135.5196	7651
114	111.0733	3318	139	136.5464	5916
115	112.0839	6977	140	137.5738	4719
116	113.0953	2584	141	138.6018	3384
117	114.1073	9860	142	139.6304	1220
118	115.1201	8507	143	140.6595	7522
119	116.1336	8208	144	141.6893	1570
120	117.1478	8632	145	142.7196	2631
121	118.1627	9427	146	143.7504	9957
122	119.1784	0227	147	144.7819	2786
123	120.1947	0644	148	145.8139	0342
124	121.2117	0279	149	146.8464	1838
125	122.2293	8710	150	147.8794	6469

$$e = 97^c$$

θ	mean anomaly		θ	mean anomaly	
150	147.8794	6469	175	173.8523	7456
151	148.9130	3422	176	174.8960	3504
152	149.9471	1867	177	175.9399	6790
153	150.9817	0964	178	176.9841	6231
154	152.0167	9860	179	178.0286	0736
155	153.0523	7688	180	179.0732	9209
156	154.0884	3570	181	180.1182	0547
157	155.1249	6618	182	181.1633	3642
158	156.1619	5929	183	182.2086	7380
159	157.1994	0591	184	183.2542	0644
160	158.2372	9681	185	184.2999	2308
161	159.2756	2262	186	185.3458	1246
162	160.3143	7390	187	186.3918	6325
163	161.3535	4108	188	187.4380	6409
164	162.3931	1449	189	188.4844	0358
165	163.4330	8439	190	189.5308	7028
166	164.4734	4089	191	190.5774	5273
167	165.5141	7406	192	191.6241	3945
168	166.5552	7382	193	192.6709	1889
169	167.5967	3006	194	193.7177	7954
170	168.6385	3252	195	194.7647	0982
171	169.6806	7091	196	195.8116	9815
172	170.7231	3483	197	196.8587	3295
173	171.7659	1379	198	197.9058	0260
174	172.8089	9724	199	198.9528	9549
175	173.8523	7456	200	200.0000	0000

$$e = 98^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	24.2347	5903
1	0.9685	9053	26	25.2058	3487
2	1.9371	8882	27	26.1771	0666
3	2.9058	0260	28	27.1485	8149
4	3.8744	3962	29	28.1202	6639
5	4.8431	0762	30	29.0921	6835
6	5.8118	1433	31	30.0642	9431
7	6.7805	6748	32	31.0366	5113
8	7.7493	7476	33	32.0092	4565
9	8.7182	4389	34	32.9820	8463
10	9.6871	8253	35	33.9551	7476
11	10.6561	9836	36	34.9285	2268
12	11.6252	9901	37	35.9021	3498
13	12.5944	9212	38	36.8760	1815
14	13.5637	8528	39	37.8501	7866
15	14.5331	8607	40	38.8246	2286
16	15.5027	0204	41	39.7993	5707
17	16.4723	4071	42	40.7743	8752
18	17.4421	0957	43	41.7497	2037
19	18.4120	1608	44	42.7253	6171
20	19.3820	6767	45	43.7013	1755
21	20.3522	7172	46	44.6775	9382
22	21.3226	3559	47	45.6541	9637
23	22.2931	6660	48	46.6311	3098
24	23.2638	7200	49	47.6084	0334
25	24.2347	5903	50	48.5860	1905

$$e = 98^c$$

θ	mean anomaly		θ	mean anomaly	
50	48.5860	1905	75	73.1525	4486
51	49.5639	8365	76	74.1407	5290
52	50.5423	0255	77	75.1294	1967
53	51.5209	8113	78	76.1185	4798
54	52.5000	2463	79	77.1081	4052
55	53.4794	3822	80	78.0981	9984
56	54.4592	2699	81	79.0887	2840
57	55.4393	9592	82	80.0797	2854
58	56.4199	4991	83	81.0712	0247
59	57.4008	9376	84	82.0631	5231
60	58.3822	3215	85	83.0555	8004
61	59.3639	6971	86	84.0484	8752
62	60.3461	1094	87	85.0418	7651
63	61.3286	6023	88	86.0357	4864
64	62.3116	2191	89	87.0301	0542
65	63.2950	0016	90	88.0249	4824
66	64.2787	9910	91	89.0202	7837
67	65.2630	2273	92	90.0160	9697
68	66.2476	7492	93	91.0124	0507
69	67.2327	5947	94	92.0092	0358
70	68.2182	8007	95	93.0064	9329
71	69.2042	4027	96	94.0042	7486
72	70.1906	4356	97	95.0025	4886
73	71.1774	9327	98	96.0013	1569
74	72.1647	9266	99	97.0005	7567
75	73.1525	4486	100	98.0003	2897

$$e = 98^c$$

θ	mean anomaly		θ	mean anomaly	
100	98.0003	2897	125	123.1525	4486
101	99.0005	7567	126	124.1647	9266
102	100.0013	1569	127	125.1774	9327
103	101.0025	4886	128	126.1906	4356
104	102.0042	7486	129	127.2042	4027
105	103.0064	9329	130	128.2182	8007
106	104.0092	0358	131	129.2327	5947
107	105.0124	0507	132	130.2476	7492
108	106.0160	9697	133	131.2630	2273
109	107.0202	7837	134	132.2787	9910
110	108.0249	4824	135	133.2950	0016
111	109.0301	0542	136	134.3116	2191
112	110.0357	4864	137	135.3286	6023
113	111.0418	7651	138	136.3461	1094
114	112.0484	8752	139	137.3639	6971
115	113.0555	8004	140	138.3822	3215
116	114.0631	5231	141	139.4008	9376
117	115.0712	0247	142	140.4199	4991
118	116.0797	2854	143	141.4393	9592
119	117.0887	2840	144	142.4592	2699
120	118.0981	9984	145	143.4794	3822
121	119.1081	4052	146	144.5000	2463
122	120.1185	4798	147	145.5209	8113
123	121.1294	1967	148	146.5423	0255
124	122.1407	5290	149	147.5639	8365
125	123.1525	4486	150	148.5860	1905

$$e = 98^c$$

θ	mean anomaly		θ	mean anomaly	
150	148.5860	1905	175	174.2347	5903
151	149.6084	0334	176	175.2638	7200
152	150.6311	3098	177	176.2931	6660
153	151.6541	9637	178	177.3226	3559
154	152.6775	9382	179	178.3522	7172
155	153.7013	1755	180	179.3820	6767
156	154.7253	6171	181	180.4120	1608
157	155.7497	2037	182	181.4421	0957
158	156.7743	8752	183	182.4723	4071
159	157.7993	5707	184	183.5027	0204
160	158.8246	2286	185	184.5331	8607
161	159.8501	7866	186	185.5637	8528
162	160.8760	1815	187	186.5944	9212
163	161.9021	3498	188	187.6252	9901
164	162.9285	2268	189	188.6561	9836
165	163.9551	7476	190	189.6871	8253
166	164.9820	8463	191	190.7182	4389
167	166.0092	4565	192	191.7493	7476
168	167.0366	5113	193	192.7805	6748
169	168.0642	9431	194	193.8118	1433
170	169.0921	6835	195	194.8431	0762
171	170.1202	6639	196	195.8744	3962
172	171.1485	8149	197	196.9058	0260
173	172.1771	0666	198	197.9371	8882
174	173.2058	3487	199	198.9685	9053
175	174.2347	5903	200	200.0000	0000

$$e = 99^c$$

θ	mean anomaly		θ	mean anomaly	
0	0.0000	0000	25	24.6173	3230
1	0.9842	9333	26	25.6028	6844
2	1.9685	9053	27	26.5885	0256
3	2.9528	9549	28	27.5742	3822
4	3.9372	1206	29	28.5600	7892
5	4.9215	4413	30	29.5460	2817
6	5.9058	9556	31	30.5320	8943
7	6.8902	7020	32	31.5182	6614
8	7.8746	7192	33	32.5045	6171
9	8.8591	0456	34	33.4909	7952
10	9.8435	7197	35	34.4775	2292
11	10.8280	7797	36	35.4641	9524
12	11.8126	2639	37	36.4509	9976
13	12.7972	2104	38	37.4379	3974
14	13.7818	6573	39	38.4250	1839
15	14.7665	6424	40	39.4122	3892
16	15.7513	2034	41	40.3996	0447
17	16.7361	3780	42	41.3871	1815
18	17.7210	2037	43	42.3747	8306
19	18.7059	7177	44	43.3626	0222
20	19.6909	9571	45	44.3505	7866
21	20.6760	9590	46	45.3387	1533
22	21.6612	7601	47	46.3270	1516
23	22.6465	3969	48	47.3154	8104
24	23.6318	9059	49	48.3041	1582
25	24.6173	3230	50	49.2929	2230

$$e = 99^c$$

θ	mean anomaly		θ	mean anomaly	
50	49.2929	2230	75	74.0761	5846
51	50.2819	0323	76	75.0702	6175
52	51.2710	6135	77	76.0645	9444
53	52.2603	9932	78	77.0591	5792
54	53.2499	1978	79	78.0539	5355
55	54.2396	2530	80	79.0489	8259
56	55.2295	1844	81	80.0442	4629
57	56.2196	0169	82	81.0397	4580
58	57.2098	7748	83	82.0354	8225
59	58.2003	4823	84	83.0314	5667
60	59.1910	1627	85	84.0276	7007
61	60.1818	8393	86	85.0241	2337
62	61.1729	5344	87	86.0208	1746
63	62.1642	2701	88	87.0177	5314
64	63.1557	0680	89	88.0149	3118
65	64.1473	9490	90	89.0123	5228
66	65.1392	9337	91	90.0100	1705
67	66.1314	0421	92	91.0079	2610
68	67.1237	2936	93	92.0060	7992
69	68.1162	7071	94	93.0044	7898
70	69.1090	3012	95	94.0031	2366
71	70.1020	0935	96	95.0020	1431
72	71.0952	1016	97	96.0011	5120
73	72.0886	3420	98	97.0005	3454
74	73.0822	8311	99	98.0001	6449
75	74.0761	5846	100	99.0000	4112

$$e = 99^c$$

θ	mean anomaly		θ	mean anomaly	
100	99.0000	4112	125	124.0761	5846
101	100.0001	6449	126	125.0822	8311
102	101.0005	3454	127	126.0886	3420
103	102.0011	5120	128	127.0952	1016
104	103.0020	1431	129	128.1020	0935
105	104.0031	2366	130	129.1090	3012
106	105.0044	7898	131	130.1162	7071
107	106.0060	7992	132	131.1237	2936
108	107.0079	2610	133	132.1314	0421
109	108.0100	1705	134	133.1392	9337
110	109.0123	5228	135	134.1473	9490
111	110.0149	3118	136	135.1557	0680
112	111.0177	5314	137	136.1642	2701
113	112.0208	1746	138	137.1729	5344
114	113.0241	2337	139	138.1818	8393
115	114.0276	7007	140	139.1910	1627
116	115.0314	5667	141	140.2003	4823
117	116.0354	8225	142	141.2098	7748
118	117.0397	4580	143	142.2196	0169
119	118.0442	4629	144	143.2295	1844
120	119.0489	8259	145	144.2396	2530
121	120.0539	5355	146	145.2499	1978
122	121.0591	5792	147	146.2603	9932
123	122.0645	9444	148	147.2710	6135
124	123.0702	6175	149	148.2819	0323
125	124.0761	5846	150	149.2929	2230

$$e = 99^c$$

θ	mean anomaly		θ	mean anomaly	
150	149.2929	2230	175	174.6173	3230
151	150.3041	1582	176	175.6318	9059
152	151.3154	8104	177	176.6465	3969
153	152.3270	1516	178	177.6612	7601
154	153.3387	1533	179	178.6760	9590
155	154.3505	7866	180	179.6909	9571
156	155.3626	0222	181	180.7059	7177
157	156.3747	8306	182	181.7210	2037
158	157.3871	1815	183	182.7361	3780
159	158.3996	0447	184	183.7513	2034
160	159.4122	3892	185	184.7665	6424
161	160.4250	1839	186	185.7818	6573
162	161.4379	3974	187	186.7972	2104
163	162.4509	9976	188	187.8126	2639
164	163.4641	9524	189	188.8280	7797
165	164.4775	2292	190	189.8435	7197
166	165.4909	7952	191	190.8591	0456
167	166.5045	6171	192	191.8746	7192
168	167.5182	6614	193	192.8902	7020
169	168.5320	8943	194	193.9058	9556
170	169.5460	2817	195	194.9215	4413
171	170.5600	7892	196	195.9372	1206
172	171.5742	3822	197	196.9528	9549
173	172.5885	0256	198	197.9685	9053
174	173.6028	6844	199	198.9842	9333
175	174.6173	3230	200	200.0000	0000